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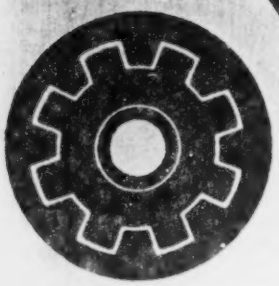
OCCUPATIONAL EMPLOYMENT



MANUFACTURING

HOSPITALS

1980
NORTH CAROLINA

JOB SERVICE

Labor Market Information

OCCUPATIONAL EMPLOYMENT IN MANUFACTURING AND HOSPITALS

NORTH CAROLINA

1980

EMPLOYMENT SECURITY COMMISSION
OF NORTH CAROLINA

Glenn R. Jernigan, Chairman

This is a cooperative program involving the Employment Security Commission of North Carolina, the Bureau of Labor Statistics, and the Employment and Training Administration of the U.S. Department of Labor.

MARCH, 1982

A Labor Market Information Publication

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INTRODUCTION

The manpower planning process has increased the need for occupational employment information. The Employment and Training Administration and the Bureau of Labor Statistics, both of the U.S. Department of Labor, have developed the Occupational Employment Statistics (OES) Program to help meet these manpower planning needs. The OES Program has three main elements:

1. Periodic surveys of approximately 2,000 occupations by industry
2. The National/State Industry Occupation Employment Matrix
3. State and area manpower projections by industry and occupation

This is the third report in the OES series based on a survey of manufacturing industries. This publication is based on a survey conducted between June, 1980 and February, 1981, and covers manufacturing industries as defined in the 1972 Standard Industrial Classification Manual (SIC). Establishments engaged in the mechanical and chemical transformation of materials into new products and establishments involved in blending materials such as lubricating oils, plastics, or liquors are included in the manufacturing division. Also included are establishments engaged in assembling component parts of manufactured products so long as the new product is not a structure or other fixed improvement.

In 1980, there were 824,200 persons employed in manufacturing establishments in North Carolina. This was 34.5% of the total nonagricultural wage and salary employment in the State. Chart A shows the relationship of manufacturing employment to the other major divisions of nonagricultural wage and salary employment in the State for 1980. Chart B shows the average annual nonagricultural wage and salary employment in North Carolina from 1972 to 1980. Chart C shows the average annual employment for manufacturing from 1972 to 1980.

NOTE: Employment data for Charts A, B, and C are expressed as average annual figures. The information was obtained from the Current Employment Statistics Program of the Employment Security Commission of North Carolina.

Also included in this publication are occupational estimates for hospitals derived from our first survey of hospital employment. Based upon data collected between June, 1980, and February, 1981, the survey includes data on both the public and private sectors.

CHART A: MANUFACTURING EMPLOYMENT AS COMPARED TO TOTAL NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT 1980

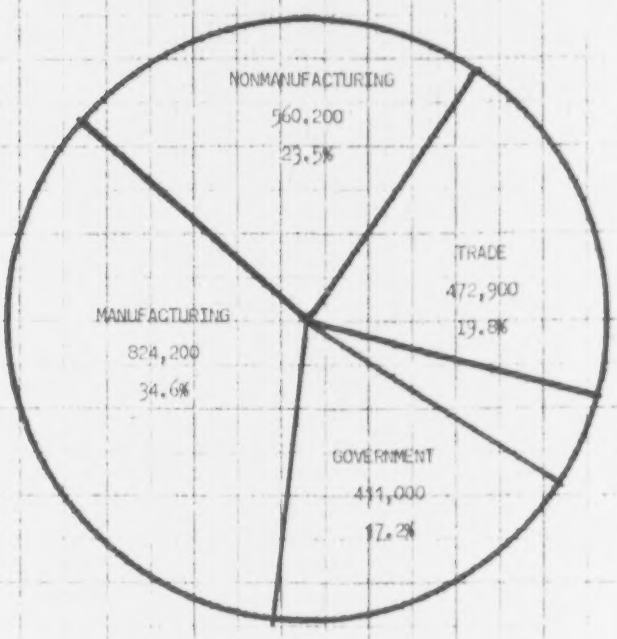

CHART B: NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT

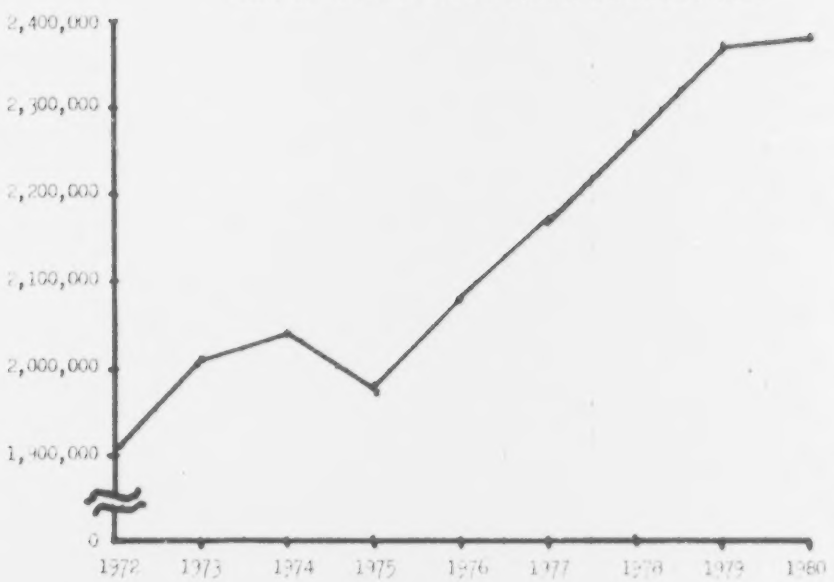

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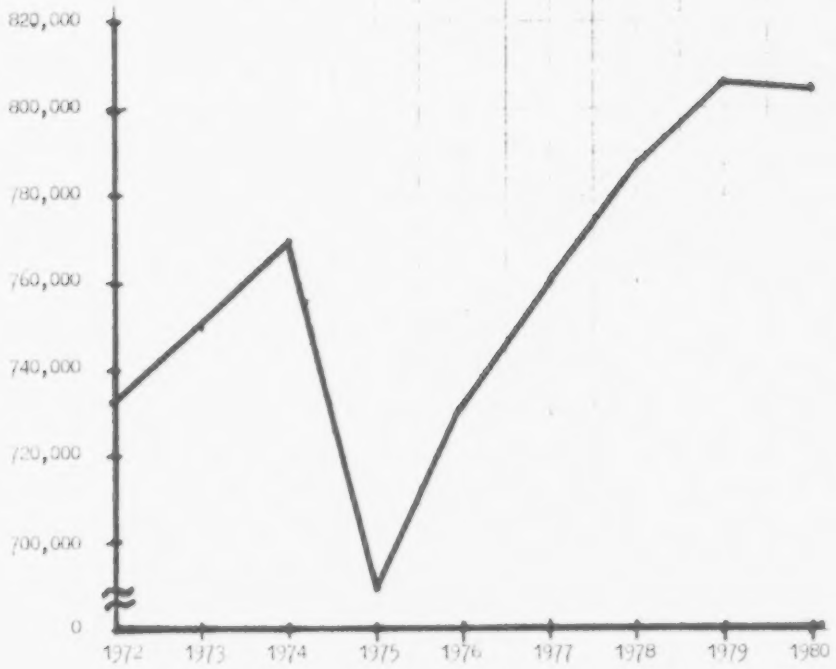
CHART C: MANUFACTURING WAGE AND SALARY EMPLOYMENT



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METHODOLOGY

A questionnaire was mailed to sampled manufacturing establishments in order to obtain occupational data. The total occupational employment for an industry was then estimated from the responding establishments.

Sample

The sample was drawn using procedures outlined in the OES Survey Operations Manual. Establishments were divided into different size classes by number of employees. All establishments with more than 250 employees were sampled. Establishments in each smaller size class were sampled in proportion to the employment in the size class; however, no establishment with fewer than four employees was sampled. Employment in these establishments was accounted for in the next larger size class. Each unit that was sampled was assigned a weight according to the ratio of units sampled in that size class. For example, when all units in a size class were sampled, the weight was one. When the units were sampled at a ratio of one out of four, the sampled unit was given a weight of four. The weighted establishment then represented itself and three other establishments.

Collection

Data collection began in May, 1980 and ended in February, 1981. Two follow-up mailings, personal visits, or telephone calls were made to those establishments whose response was vital for statistical purposes, to those who had difficulty completing the questionnaire, or to those where clarification of the response was necessary.

Estimates

Data from the questionnaires were keypunched and loaded to tape. The tape was processed using the OES Batch Systems Programs to sort and screen the data. The estimating programs sorted the data into size class cells. The weighted employment of each occupation in each cell was then estimated individually and summed across all cells in order to produce the final occupational employment estimate for each industry.

Error

Two types of errors, sampling and non-sampling, can affect the results of a survey. Sampling error is the difference between the estimates developed from data collected from a sample and the data collected from the universe from which the sample was drawn. Sampling error is measurable and is expressed as relative error. The relative error shown in this publication is such that the chances are two out of three that the results of comparable universal data collection would not differ by more than the percentage shown. Non-sampling error can arise from faulty questionnaire design, inability to collect necessary data, inaccuracy of data collected, and ineffective processing techniques. Non-sampling error cannot be measured.

Publication

After the data file had been processed through the OES estimates programs, a computer printout was received which contained the estimated employment for

each occupation, the relative error of the occupational estimate, the percent distribution of the occupational employment, the number of employees reported in each occupation, and the number of establishments which reported each occupation.

Industries were surveyed at the 3-digit SIC level; however, published data are at the 2-digit level of detail. The following exceptions were made to this format. Industry codes 259, 329, 333, 341, 361, and 387 were excluded due to inadequate response.

Occupational data were not published for industries when the industry employment was less than 1,000. The estimated employment for occupations was rounded to the nearest ten. The estimated employment was put in a residual category when the estimated employment for an occupation was less than 15 or less than 0.05 percent of the total group employment, when the relative error was more than 35 percent, or when an occupation was not reported by at least four establishments. Although they are not published here, the suppressed industry and occupation data will be included in the industry/occupation matrix.

Relative error is not applicable (N.A.) for residual categories, occupational group totals, and total employment because it is not additive. The percent distribution was computed on the unrounded employment estimates; therefore, some occupations with the same published estimated employment may not have the same percent distribution.

Six major occupational groups are listed for each industry. When there was no reported employment in an occupational group, the estimated employment is listed as zero. When the estimated employment for the occupational group was less than 15, the figure was not published; however, the existence of some employment in the group is indicated by a dash (--).

NOTE: Occasionally the sum of occupations will not equal the Total Employment or the occupational category because of rounding.

SELECTED LIST OF RELEVANT PUBLICATIONS

The following is a partial list of publications that may be helpful to manpower planners. The publications are available from the Employment Security Commission of North Carolina, Labor Market Information (LMI) Division. A complete list of LMI publications may be found in its Catalog of Publications and Releases.

1. Results of OES surveys of Occupational Employment for industries in

   A. Trade
   B. Manufacturing and Hospitals
   C. Government and Education
   D. Nonmanufacturing

2. North Carolina Labor Force Estimates by County, Area, and State. A report in which monthly and annual average employment by major industry divisions, and unemployment, are shown for the State, each county, and each multicounty labor area for the preceding calendar year.

3. Preliminary Civilian Labor Force Estimates. A monthly report showing preliminary labor force, total employment, total unemployment, and unemployment rates for the State and for each of the 100 counties.

4. Active Job Applicants Registered for Work with Employment Security Commission Offices, by applicant's county of residence. A special report prepared upon request depicting the number of actively registered job applicants available for work within a commuting radius of any designated town or industrial site in the State. The report includes a map of the area, total population of the area, and the number of high school graduates entering the labor force.

5. Area Labor Market Newsletters. A monthly or bimonthly report for selected labor areas of the State which includes a narrative analysis and supporting statistical data on employment and unemployment trends in the area.

6. Registered Applicants and Job Openings. A quarterly summary report of job applicants and job openings for selected occupations statewide. The report shows the number of applicants registered to date during the fiscal year with a listing of the number of men and women actively registered at the close of each month. Also, it shows nonfarm job openings received and filled during fiscal year and number unfilled for 30 days or more.

7. North Carolina and Labor Market Area Annual Planning Reports. An annual report which contains detailed labor market data including a definition of the area; economic development and area outlook; population and labor force characteristics and trends; employment developments and outlook by industry and occupation; recent trends in unemployment; estimates of need for manpower services; characteristics of the economically disadvantaged and nondisadvantaged; and barriers to employment of the economically disadvantaged. Also contained in the report are supportive statistical charts, tables, and maps.

8. Employment Projections to 1985 for

   A. North Carolina

B. Seven Standard Metropolitan Statistical Areas (SMSA)
C. Eighteen Planning Regions

Reports contain projections of future occupational employment needs to the year 1985 for the State, the SMSA's and regions. Reports include a narrative analysis and supportive statistical data in tables and charts.

9. State Labor Summary. A monthly report which provides an overview of statewide labor market conditions. Includes narrative analysis and supporting statistical data on current employment and unemployment trends; labor supply and demand relationships; employment and training program activities; hours worked and wages paid are included in the report.

10. 1981 Wage Rates in Selected Occupations. An annual report giving a statewide breakdown of wage rates by occupation and by industry. Also included are breakdowns by occupation for the eighteen planning regions. Rates are for selected typical production and non-production workers in manufacturing industries.

The following is an additional list of publications available through the U.S. Government Printing Office.

1. Standard Industrial Classification Manual, 1972. A classification of establishments by type of industrial activity which is used to facilitate the collection, tabulation, presentation, and analysis of data; and to promote uniformity and comparability in the presentation of statistical data collected by various agencies of the United States government, State agencies, trade associations, and private research organizations.

2. Dictionary of Occupational Titles, Fourth Edition, 1977. This U.S. Department of Labor, Employment and Training Administration publication contains the country's most comprehensive job descriptions and related information on the 20,000 occupations identified in the United States. Known as the "DOT", the volume groups jobs in a classification structure based on interrelationships of tasks and job requirements.

3. Guide for Occupational Exploration. This U.S. Department of Labor, Employment and Training Administration publication groups the thousands of occupations in the world of work by interests and by ability and traits required for successful performance. Descriptive information is provided for each work group to assist the individual in reviewing, understanding, and evaluating his or her own interests and potentials and relating them to pertinent fields of work.

4. Occupational Outlook Handbook, U.S. Department of Labor. A description of more than 850 occupations that include jobs about which young people are most interested in learning, occupations requiring long periods of education or training, and a number of small but growing fields of employment. Each description contains a section on the nature of the work; industrial and/or geographic places of employment; training, other qualifications, and advancement; and prospective job opportunities on a National level.

FOOD AND KINDRED PRODUCTS
(SIC 20)

This major group includes those establishments engaged in the manufacture of food, beverages, and related products for human consumption. Prepared feeds for fowl and animals are included also.

The following table shows the percent distribution of establishments and employment by establishment size. Nearly 75 percent of the total employment in this industry is in the establishments with 100 or more employees.

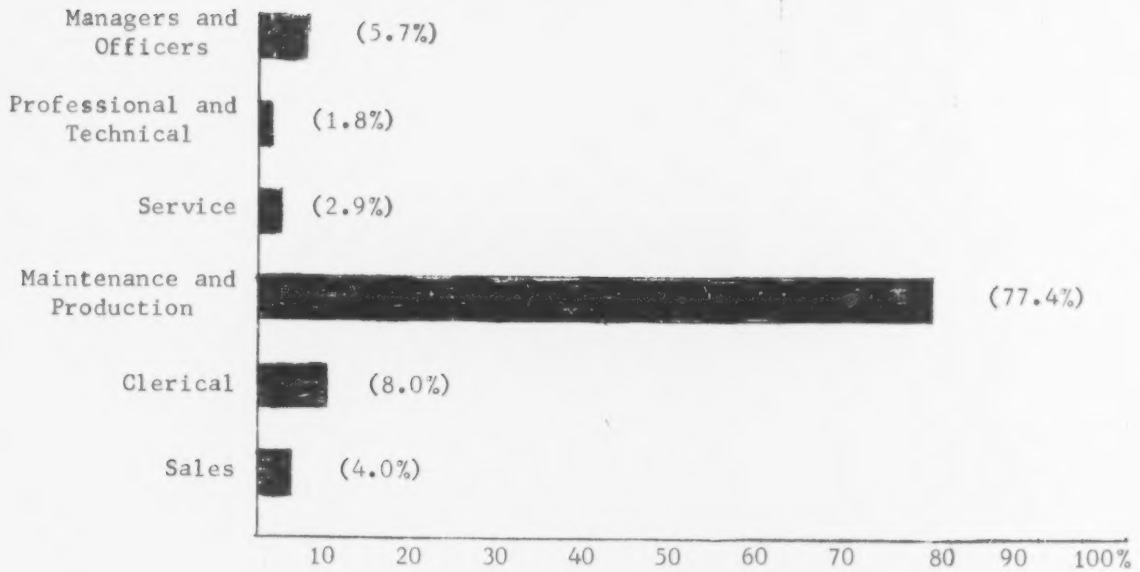
Establishment Size	Percent of Establishments	Percent of Employment
19 or fewer employees	52.7	5.5
20 - 49 employees	20.1	9.5
50 - 99 employees	12.0	12.6
100 or more employees	15.2	72.4

The following table lists the ten specific occupations in the food industry in which the most workers were employed in June, 1980. These occupations had 52.7 percent of the group's employment.

Occupation	Estimated Industry Employment	Percent Distribution
Poultry Dressers and/or Eviscerators	5,590	12.4
Delivery and/or Route Workers	4,970	11.0
Production Packagers	4,210	9.4
Managers and Officers	2,580	5.7
Truck Drivers	1,280	2.8
Sales Representatives	1,270	2.8
Supervisors	1,170	2.6
Janitors, Porters, and Cleaners	1,070	2.4
Chicken Cutters	800	1.8
Maintenance Mechanics	770	1.7

The graph below illustrates employment by major occupational category.

PERCENT DISTRIBUTION OF FOOD AND KINDRED PRODUCTS EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY IN NORTH CAROLINA, JUNE, 1980



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FOOD AND KINDRED PRODUCTS
(SIC 20)
June, 1980

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Total Employment	44,940	N.A.	100.0
Managers and Officers	2,580	4.1	5.7
Professional and Technical Workers	820	N.A.	1.8
Engineers	140	N.A.	0.4
Industrial Engineers	30	14.7	0.1
Mechanical Engineers	70	6.0	0.2
Other Engineers	40	N.A.	0.1
Chemists	50	9.8	0.1
Biological Scientists	20	21.7	0.1
Purchasing Agents and/or Buyers	110	9.9	0.2
Accountants and Auditors	130	6.5	0.3
Professional Nurses	30	3.6	0.1
Personnel and Labor Relations Specialists	90	9.2	0.2
Other Professional Workers	40	N.A.	0.1
Computer Programmers	30	12.8	0.1
Biological Scientist Technicians	60	24.9	0.1
Other Science Technicians	90	N.A.	0.2
Other Technicians	30	N.A.	0.1
Service Workers	1,310	N.A.	2.9
Service Supervisors	40	11.4	0.1
Janitors, Porters, and Cleaners	1,070	6.4	2.4
Guards and Doorkeepers	130	7.9	0.3
Food Service Workers	40	6.8	0.1
Other Service Workers	30	N.A.	0.1
Maintenance and Production Workers	34,810	N.A.	77.4
Supervisors	1,170	4.2	2.6
Mechanics and Repairers	1,690	N.A.	3.7
Automotive Mechanics	470	5.7	1.0
Maintenance Mechanics	770	5.9	1.7
Refrigeration and/or Air Conditioning Mechanics	70	9.7	0.2
Coin and/or Vending Machine Servicers	250	6.3	0.5
Other Mechanics and Repairers	130	N.A.	0.3
Truck Drivers	1,280	6.1	2.9
Carpenters	50	21.8	0.1
Cooks and/or Cookers	200	7.6	0.4
Delivery and Route Workers	4,970	5.4	11.0
Extractors and/or Plant Operators	50	8.8	0.1
Electricians	150	3.9	0.3
Industrial Truck Operators	700	5.4	1.6
Inspectors	170	15.7	0.4
Instrument Repairers	40	15.8	0.1
Machinists	120	17.1	0.3

FOOD AND KINDRED PRODUCTS
(SIC 20)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Maintenance Repairers, General Utility	620	8.7	1.4
Trades Helpers	190	18.0	0.4
Mixers	540	10.4	1.2
Oilers	30	8.6	0.1
Order Fillers	550	13.6	1.2
Oven Operators	190	13.6	0.4
Maintenance Painters	40	19.2	0.1
Production Packagers	4,210	7.7	9.4
Stationary Boiler Firers	40	6.0	0.1
Welders and Flamecutters	30	14.3	0.1
Baker Helpers	450	24.6	1.0
Boners, Meat	150	18.8	0.3
Boners, Poultry	410	23.3	0.9
Butchers, All-Around	230	24.9	0.5
Carbonation Equipment Tenders, Beer	60	3.1	0.1
Casing Finishers	70	26.8	0.2
Cheesemakers	30	0.0	0.1
Cheesemaker Helpers	30	0.0	0.1
Chicken Cutters	800	10.1	1.8
Cooler Room Workers, Meat	60	31.5	0.1
Dairy Processing Equipment Operators	170	8.5	0.4
Dehairing Machine Tenders	40	27.2	0.1
Dividing-Machine Operators and/or Dough-Brake Machine Operators	140	25.2	0.3
Feed Pellet Mill Operators	120	14.3	0.3
Flavor Room Workers	30	3.4	0.1
Grain Receivers	40	31.8	0.1
Ingredient Scalers	60	25.9	0.1
Meat Grinders	60	26.6	0.1
Millers	250	16.2	0.5
Novelty Workers	80	11.2	0.2
Poultry Dressers and/or Eviscerators	5,590	3.9	12.4
Shellfish Shuckers	630	29.5	1.4
Animal Skinners	70	26.0	0.2
Stickers	30	12.8	0.1
Stunners	90	23.9	0.2
Testers	220	8.6	0.5
Conveyor Operators or Tenders	60	20.5	0.1
Cutting Machine Operators, Food	210	17.5	0.5
Fish Cleaners/Butchers	170	33.2	0.4
Cannery Workers	360	8.6	0.8
Production Weighers	140	25.4	0.3
Depositors, Food	30	25.0	0.1
Picklers, Food	70	31.4	0.2
Washers and/or Separators, Food	100	19.9	0.2
Graders, Food and/or Skins	170	8.3	0.4

FOOD AND KINDRED PRODUCTS
(SIC 20)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Equipment Cleaners, Hand	340	12.2	0.8
Filters and/or Filter Press Operators	30	3.8	0.1
Other Skilled Workers	390	N.A.	0.9
Other Semiskilled Workers	1,580	N.A.	3.5
Other Unskilled Workers	4,220	N.A.	9.4
Clerical Workers	3,590	N.A.	8.0
Supervisors	100	19.9	0.2
Office Machine Operators	230	N.A.	0.5
Bookkeeping and/or Billing Machine Operators	60	17.5	0.1
Computer Operators	70	10.0	0.1
Keypunch Operators	80	10.1	0.2
Other Machine Operators	20	N.A.	0.1
Accounting Clerks	350	7.2	0.8
Bookkeepers, Hand	250	8.2	0.6
General Office Clerks	480	7.3	1.1
Order Clerks	100	12.2	0.2
Payroll and/or Timekeeping Clerks	100	5.7	0.2
Personnel Clerks	60	7.2	0.1
Procurement Clerks	20	12.5	0.1
Secretaries	320	7.3	0.7
Statistical Clerks	40	15.2	0.1
Switchboard Operators/Receptionists	80	6.6	0.2
Typists	50	8.0	0.1
Production Clerks and/or Coordinators	70	10.3	0.2
Shipping Packers	480	10.2	1.1
Shipping and Receiving Clerks	510	9.3	1.1
Weighers, Recordkeeping	60	20.6	0.1
Stock Clerks, Stockroom and Warehouse	150	9.8	0.3
Other Clerical Workers	140	N.A.	0.3
Sales Workers	1,830	N.A.	4.0
Sales Representatives	1,270	12.5	2.8
Sales Clerks	560	16.8	1.2

TOBACCO MANUFACTURERS
(SIC 21)

Establishments in this major group are involved in the manufacture of cigarettes, cigars, smoking and chewing tobacco, and snuff. The stemming and redrying of tobacco are included in this category.

The following table shows the percent distribution of establishments and employment by establishment size. The size classes with 99 or fewer employees account for only 2 percent of the employment.

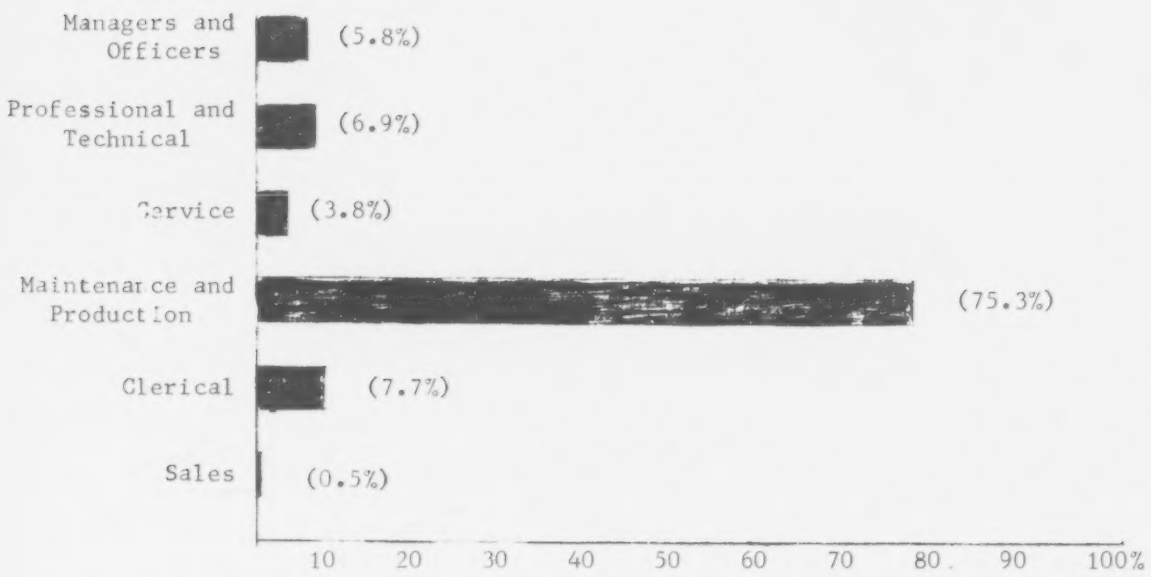
Establishment Size	Percent of Establishments	Percent of Employment
19 or fewer employees	21.9	0.2
20 - 49 employees	9.3	0.5
50 - 99 employees	6.3	0.6
100 or more employees	62.5	98.7

The following table lists the ten specific occupations of the tobacco industry in which the most workers were employed in April, 1980. These occupations accounted for nearly 47 percent of the total employment.

Occupation	Estimated Industry Employment	Percent Distribution
Production Packagers	2,000	8.8
Cigarette Making Machine Operators	1,920	8.4
Managers and Officers	1,320	5.8
Supervisors	1,190	5.2
Machine Adjusters	1,120	4.9
Inspectors	1,070	4.7
Making Machine Catchers	640	2.8
Industrial Truck Operators	600	2.6
Janitors, Porters, and Cleaners	570	2.5
Maintenance Mechanics	440	1.9

Illustrated in the following graph is employment by major occupational group.

PERCENT DISTRIBUTION OF TOBACCO MANUFACTURERS EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY IN NORTH CAROLINA, APRIL, 1980



TOBACCO MANUFACTURERS
(SIC 21)
April, 1980

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Total Employment	22,750	N.A.	100.0
Managers and Officers	1,320	3.8	5.8
Professional and Technical Workers	1,590	N.A.	6.9
Engineers	150	N.A.	0.6
Industrial Engineers	30	9.4	0.1
Mechanical Engineers	90	4.3	0.4
Other Engineers	30	N.A.	0.1
Chemists	160	6.5	0.7
Purchasing Agents and/or Buyers	300	17.1	1.3
Accountants and Auditors	110	11.7	0.5
Professional Nurses	20	13.3	0.1
Other Professional Workers	190	N.A.	0.8
Electrical and Electronic Technicians	140	7.7	0.6
Other Technicians	520	N.A.	2.3
Service Workers	880	N.A.	3.8
Janitors, Porters, and Cleaners	570	7.8	2.5
Guards and Doorkeepers	210	7.1	0.9
Other Service Workers	100	N.A.	0.4
Maintenance and Production Workers	17,120	N.A.	75.3
Supervisors	1,190	4.3	5.2
Mechanics and Repairers	1,800	N.A.	7.9
Automotive Mechanics	20	12.2	0.1
Maintenance Mechanics	440	3.6	1.9
Machine Adjusters	1,120	3.1	4.9
Hogshead Coopers	120	9.3	0.5
Other Mechanics and Repairers	100	N.A.	0.4
Truck Drivers	260	7.0	1.2
Carpenters	50	3.5	0.2
Cooks and/or Cookers	20	13.9	0.1
Electricians	180	2.0	0.8
Industrial Truck Operators	600	3.0	2.6
Inspectors	1,070	2.2	4.7
Leaf Conditioners and/or Casers	20	10.2	0.1
Machinists	260	2.2	1.1
Maintenance Repairers, General Utility	70	18.7	0.3
Mixers	40	3.4	0.2
Oilers	60	12.1	0.3
Maintenance Painters	20	0.0	0.1
Plumbers and/or Pipefitters	120	1.7	0.5
Production Packagers	2,000	1.5	8.8
Sheet Metal Workers	60	2.2	0.3
Stationary Boiler Firers	60	5.1	0.3
Stationary Engineers	40	3.9	0.2

TOBACCO MANUFACTURERS
(SIC 21)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Welders and Flamecutters	30	0.0	0.1
Drier Operators	110	7.5	0.5
Casing Machine Operators	40	7.6	0.2
Cigarette Filter Making Machine Operators	320	4.0	1.4
Cigarette Making Machine Operators	1,920	1.5	8.4
Making Machine Catchers	640	6.3	2.8
Ordering Machine Operators	20	9.6	0.1
Pickers	160	5.1	0.7
Testers	330	4.9	1.5
Cutters and/or Grinder Operators	70	10.0	0.3
Feeders-Catchers, Tobacco	40	15.4	0.2
Other Skilled Workers	430	N.A.	1.9
Other Semiskilled Workers	1,010	N.A.	4.4
Other Unskilled Workers	4,080	N.A.	17.9
Clerical Workers	1,720	N.A.	7.7
Supervisors	80	11.7	0.4
Keypunch Operators	20	14.3	0.1
Stenographers	110	6.5	0.5
Accounting Clerks	90	5.3	0.4
Bookkeepers, Hand	30	16.1	0.1
General Office Clerks	370	9.0	1.6
Payroll and/or Timekeeping Clerks	110	2.3	0.5
Personnel Clerks	30	5.4	0.1
Procurement Clerks	40	6.2	0.2
Secretaries	240	5.9	1.1
Typists	70	7.2	0.3
Production Clerks and/or Coordinators	20	13.2	0.1
Shipping Packers	20	23.5	0.1
Shipping and Receiving Clerks	60	29.4	0.3
Weighers, Recordkeeping	20	17.6	0.1
Stock Clerks, Stockroom and Warehouse	50	8.0	0.2
Other Clerical Workers	360	N.A.	1.5
Sales Workers	120	N.A.	0.5
Sales Representatives	120	4.9	0.5

TEXTILE MILL PRODUCTS
(SIC 22 EXCEPT 221)

This major group includes establishments engaged in performing any of the following operations: (1) preparing fiber and manufacturing of yarn, thread, braids, twine, and cordage; (2) manufacturing broad and narrow woven fiber, knit fabric, and carpets and rugs from yarn; (3) dyeing and finishing fiber, yarn, fabric, and knit apparel; (4) coating, waterproofing, or otherwise treating fabric; (5) the integrated manufacture of knit apparel and other finished articles from yarn; and (6) the manufacture of felt and lace goods; nonwoven fabrics and miscellaneous textiles. This classification includes contract mills (processes materials owned by others) and integrated mills (buys raw materials, manufactures, and sells finished textile goods).

The percent distribution of establishments and employment by establishment size are shown in the following table. As may be observed, the largest size class accounts for 89 percent of the employment, although it accounts for only 38 percent of the firms.

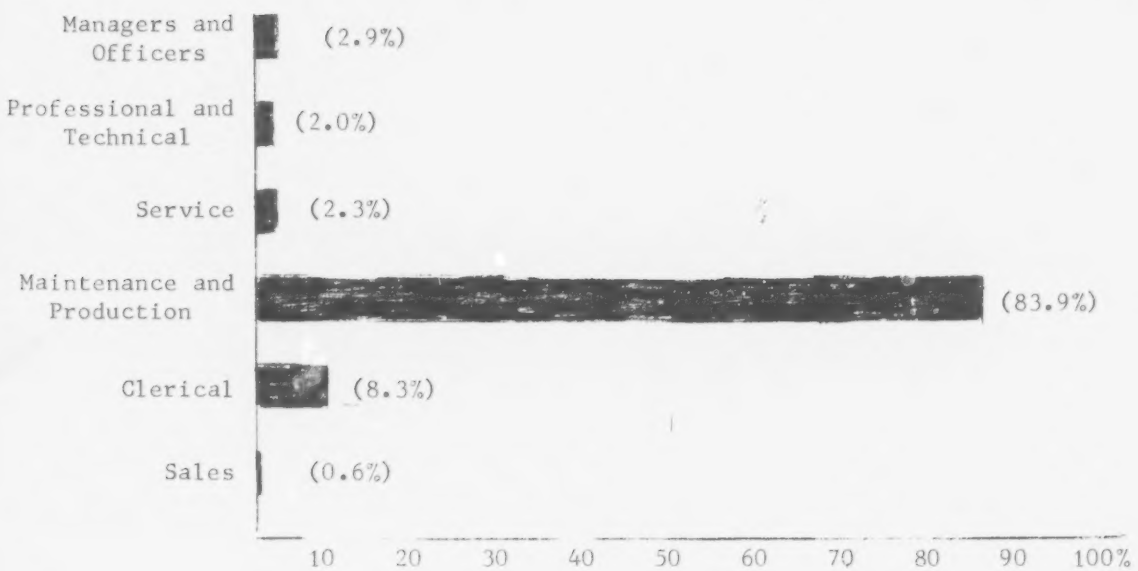
Establishment Size	Percent of Establishments	Percent of Employment
19 or fewer employees	30.7	2.0
20 - 49 employees	18.3	3.5
50 - 99 employees	12.4	5.5
100 or more employees	38.6	89.0

The following table lists the ten specific occupations in the textile group in which the most workers were employed in April, 1980. These occupations accounted for 30 percent of the group's employment.

Occupation	Estimated Industry Employment	Percent Distribution
Sewing Machine Operators, Regular Equipment-Garment	9,030	4.3
Spinners, Frame	8,170	3.9
Knitting Machine Operators	7,870	3.8
Inspectors	6,840	3.3
Winder Operators, Automatic	6,460	3.1
Yarn Winders	5,840	2.8
Doffers	5,280	2.5
Production Packagers	4,630	2.2
Knitting Machine Fixers	4,620	2.2
Sewing Machine Operators, Regular Equipment-Nongarment	4,490	2.2

The following table illustrates the employment by major occupational group.

PERCENT DISTRIBUTION OF TEXTILE MILL PRODUCTS EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY IN NORTH CAROLINA, APRIL, 1980



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TEXTILE MILL PRODUCTS
(SIC 22, EXCEPT 221)
April, 1980

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Total Employment	208,290	N.A.	100.0
Managers and Officers	6,110	4.1	2.9
Professional and Technical Workers	4,260	N.A.	2.0
Engineers	700	N.A.	0.3
Industrial Engineers	470	5.0	0.2
Mechanical Engineers	230	6.7	0.1
Chemists	160	13.9	0.1
Systems Analysts	340	27.4	0.2
Purchasing Agents and/or Buyers	280	6.6	0.1
Accountants and Auditors	730	12.2	0.3
Professional Nurses	140	7.6	0.1
Personnel and Labor Relations Specialists	440	4.4	0.2
Designers	120	10.0	0.1
Other Professional Workers	150	N.A.	0.1
Computer Programmers	200	13.3	0.1
Engineering Technicians	170	8.6	0.1
Colorists	230	11.0	0.1
Other Science Technicians	510	N.A.	0.2
Other Technicians	90	N.A.	0.1
Service Workers	4,570	N.A.	2.3
Supervisors	340	29.0	0.2
Janitors, Porters, and Cleaners	2,480	3.9	1.2
Guards and Doorkeepers	740	8.9	0.4
Other Service Workers	1,010	N.A.	0.5
Maintenance and Production Workers	174,780	N.A.	83.9
Supervisors	7,480	3.3	3.6
Mechanics and Repairers	14,160	N.A.	6.8
Automotive Mechanics	100	23.7	0.1
Maintenance Mechanics	2,400	12.9	1.2
Knitting Machine Fixers	4,620	6.6	2.2
Loom Fixers	2,340	4.9	1.1
Section Repairers and Setters	3,290	7.1	1.6
Sewing Machine Mechanics	370	10.9	0.2
Other Mechanics and Repairers	1,040	N.A.	0.5
Pressers, Hand	150	33.6	0.1
Truck Drivers	880	9.5	0.4
Carpenters	280	8.4	0.1
Drawer-Ins, Hand	260	6.1	0.1
Electricians	890	5.6	0.4
Industrial Truck Operators	1,920	6.1	0.9
Inspectors	6,840	6.2	3.3
Instructors, Apparel and Textile Machines	470	8.4	0.2

TEXTILE MILL PRODUCTS
(SIC 22, EXCEPT 221)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Machinists	690	7.8	0.3
Maintenance Repairers, General Utility	2,460	6.9	1.2
Trades Helpers	1,340	14.6	0.6
Millwrights	280	9.7	0.1
Oilers	670	7.4	0.3
Order Fillers	1,000	11.0	0.5
Maintenance Painters	160	7.7	0.1
Plumbers and/or Pipefitters	120	9.8	0.1
Production Packagers	4,630	13.1	2.2
Sewing Machine Operators, Regular Equipment - Garment	9,030	12.1	4.3
Sewing Machine Operators, Regular Equipment - Nongarment	4,490	15.3	2.2
Sewing Machine Operators, Special Equipment - Nongarment	1,200	28.9	0.6
Spooler Operators, Automatic	1,140	16.3	0.5
Stationary Boiler Firers	110	20.2	0.1
Welders and Flamecutters	120	10.9	0.1
Weavers	4,140	4.8	2.0
Back Tenders, Cloth Printing	110	27.8	0.1
Battery Loaders	410	9.6	0.2
Beam-Dyer Operators	310	14.8	0.1
Beam-Warper Tenders	870	11.7	0.4
Bleach-Range Operators	210	17.2	0.1
Blending-Machine Operators	410	17.5	0.2
Boarding-Machine Operators, Hosiery	3,100	15.7	1.5
Bobbin Sorters	230	8.9	0.1
Bobbin Winders, Machine	880	14.5	0.4
Braiding Machine Operators	450	21.0	0.2
Burlers	800	7.9	0.4
Calendar Operators, Cloth Press	220	22.9	0.1
Calendar-Machine Operators, Knit Goods	310	21.4	0.1
Card Grinders	430	9.1	0.2
Card Tenders	2,310	9.8	1.1
Drawing-Frame Tenders	1,980	7.4	0.9
Cloth Feeders	810	24.2	0.4
Finishing-Range Tenders	410	23.0	0.2
Finishing-Range Operators	590	15.4	0.3
Cloth Printers	110	23.7	0.1
Cloth Trimmers, Machine	220	20.3	0.1
Cloth or Carpet Winders	180	11.9	0.1
Coating Machine Operators	210	18.0	0.1
Creelers, Yarn	3,200	7.3	1.5
Cutters, Portable Machine	250	19.1	0.1
Doffers	5,280	5.4	2.5

TEXTILE MILL PRODUCTS
(SIC 22, EXCEPT 221)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Drawing-In Machine Tenders	280	8.1	0.1
Dye-Range Operators	920	16.2	0.4
Dye-Reel Operators	870	19.6	0.4
Dye-Tub Operators	1,130	14.3	0.5
Harness Builders, Loom	400	6.1	0.2
Harness Placers	610	9.4	0.3
Knitters, Full Fashioned	320	26.6	0.2
Knitting Machine Operators	7,870	11.0	3.8
Loom-Winder Tenders	380	16.2	0.2
Cloth Menders	400	16.8	0.2
Mercerizer Operators	130	28.9	0.1
Napper Tenders	440	19.3	0.2
Needle-Felt-Making Machine and/or Needle Loom Operators	140	17.6	0.1
Opener and/or Waste-Machine Tenders	660	8.6	0.3
Picker Tenders	420	14.0	0.2
Quilling-Machine Operators	240	23.0	0.1
Rubber-Covering-Machine Operators	490	15.2	0.2
Seamless-Hosiery Knitters	2,450	21.2	1.2
Skein-Yarn Dyers	250	27.2	0.1
Slasher Tenders	710	5.5	0.3
Slubber Tenders	1,720	7.2	0.8
Smash Hands	400	7.5	0.2
Speeder Tenders	220	27.2	0.1
Spinners, Frame	8,170	5.5	3.9
Staple Cutters and/or Staple-Processing-Machine Operators	150	22.2	0.1
Tenter-Frame Operators	1,230	15.9	0.6
Testers	1,380	14.4	0.7
Threaders, Knit Goods	200	27.9	0.1
Twister Tenders	4,080	7.2	2.0
Warp-Knitting Machine Operators	730	27.7	0.3
Warp-Tying Machine Tenders	380	7.7	0.2
Winder Operators, Automatic	6,460	6.8	3.1
Texturizers and/or Crimp Setters	2,420	25.3	1.2
Yarn Winders	5,840	10.1	2.8
Cloth Graders	2,100	8.5	1.0
Hand Folders	3,200	12.1	1.5
Folding Machine Operators	330	26.7	0.2
Cutters, Machine	630	17.3	0.3
Autoclave Operators	180	16.1	0.1
Drier Operators, Textile	530	15.0	0.3
Screen or Stencil Printers and/or Setters	240	19.8	0.1
Mixer/Blenders, Chemical	1,000	8.9	0.5
Other Skilled Workers	1,360	N.A.	0.7
Other Semiskilled Workers	10,700	N.A.	5.1

TEXTILE MILL PRODUCTS
(SIC 22, EXCEPT 221)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Other Unskilled Workers	12,820	N.A.	6.2
Clerical Workers	17,320	N.A.	8.3
Supervisors	1,120	13.8	0.5
Office Machine Operators	1,110	N.A.	0.5
Bookkeeping and/or Billing Machine Operators	130	11.9	0.1
Computer Operators	390	10.9	0.2
Keypunch Operators	520	8.4	0.3
Other Office Machine Operators	70	N.A.	0.1
Stenographers	120	19.0	0.1
Accounting Clerks	710	9.4	0.3
Bookkeepers, Hand	130	12.3	0.1
File Clerks	210	12.6	0.1
General Office Clerks	1,960	8.0	0.9
Order Clerks	440	8.6	0.2
Payroll and/or Timekeeping Clerks	790	4.9	0.4
Personnel Clerks	440	5.8	0.2
Procurement Clerks	140	8.8	0.1
Secretaries	1,250	12.4	0.6
Statistical Clerks	200	11.1	0.1
Switchboard Operators/Receptionists	310	5.4	0.1
Typists	430	9.6	0.2
Production Clerks and/or Coordinators	980	6.1	0.5
Shipping Packers	2,810	8.5	1.3
Shipping and Receiving Clerks	1,440	5.8	0.7
Weighers, Recordkeeping	210	18.2	0.1
Stock Clerks, Stockroom and Warehouse	1,110	7.0	0.5
Other Clerical Workers	1,410	N.A.	0.7
Sales Workers	1,250	N.A.	0.6
Sales Representatives	1,130	25.1	0.5
Sales Clerks	120	25.4	0.1

APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS (SIC 23)

This major group includes those establishments primarily engaged in producing clothing and fabricating products by cutting and sewing purchased woven or knit textile fabrics. Other materials in clothing making such as leather, rubber, plastics, and furs are included in this group.

The largest size class accounts for nearly 85 percent of the employment. The following table shows the percent distribution of establishments and employment by establishment size.

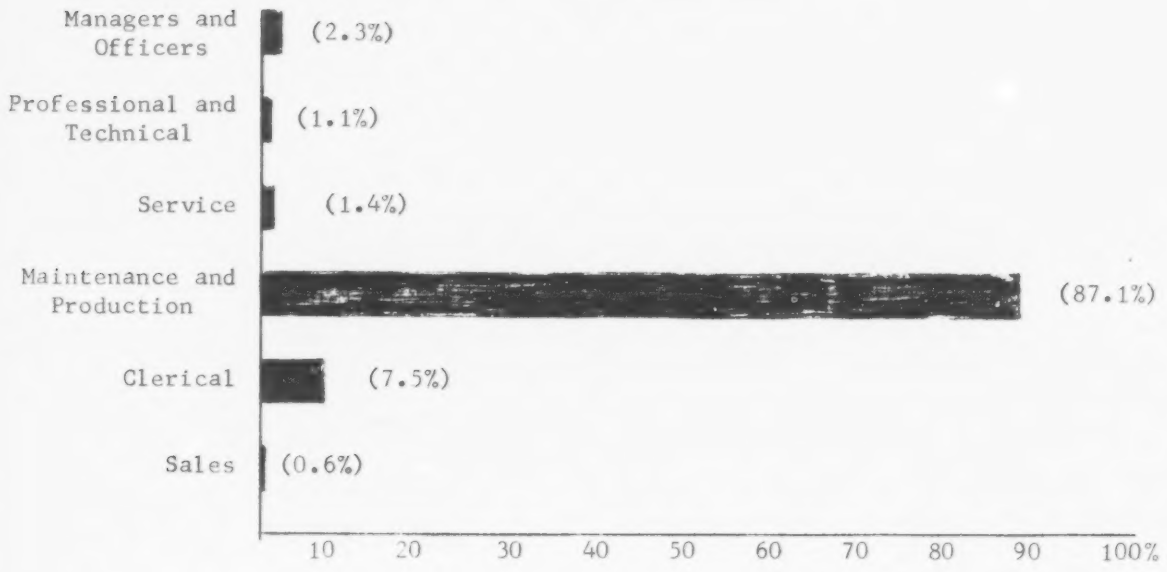
Establishment Size	Percent of Establishments	Percent of Employment
19 or fewer employees	25.0	1.4
20 - 49 employees	15.0	4.1
50 - 99 employees	17.2	10.1
100 or more employees	42.8	84.4

Listed in the following table are the ten specific occupations in this particular industry in which the most workers were employed in May, 1980. These occupations accounted for 68 percent of the total employment.

Occupation	Estimated Industry Employment	Percent Distribution
Sewing Machine Operators, Regular Equipment-Garment	38,580	43.7
Sewing Machine Operators, Special Equipment-Garment	4,240	4.8
Inspectors	3,260	3.7
Sewing Machine Operators, Regular Equipment-Nongarment	2,860	3.2
Hand Folders	2,440	2.8
Supervisors	2,390	2.7
Managers and Officers	2,030	2.3
Sewing Machine Operators, Special Equipment-Nongarment	1,470	1.7
Markers	1,430	1.6
Shipping Packers	1,330	1.5

The table below illustrates the employment by major occupational group.

PERCENT DISTRIBUTION OF APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY IN NORTH CAROLINA, MAY, 1990



APPAREL AND OTHER FINISHED PRODUCTS
MADE FROM FABRICS AND SIMILAR MATERIALS
(SIC 23)
May, 1980

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Total Employment	88,110	N.A.	100.0
Managers and Officers	2,030	5.1	2.3
Professional and Technical Workers	930	N.A.	1.1
Engineers	240	N.A.	0.3
Industrial Engineers	190	7.2	0.2
Mechanical Engineers	50	17.5	0.1
Purchasing Agents and/or Buyers	90	11.4	0.1
Accountants and Auditors	120	9.1	0.1
Personnel and Labor Relations Specialists	130	6.9	0.1
Designers	80	13.7	0.1
Other Professional Workers	80	N.A.	0.1
Computer Programmers	80	7.6	0.1
Engineering Technicians	80	9.7	0.1
Other Technicians	30	N.A.	0.1
Service Workers	1,260	N.A.	1.4
Service Supervisors	220	10.8	0.3
Janitors, Porters, and Cleaners	880	3.7	1.0
Guards and Doorkeepers	110	15.4	0.1
Other Service Workers	50	N.A.	0.1
Maintenance and Production Workers	76,740	N.A.	87.1
Supervisors	2,390	3.2	2.7
Mechanics and Repairers	1,250	N.A.	1.4
Maintenance Mechanics	130	10.6	0.1
Sewing Machine Mechanics	920	3.9	1.0
Other Mechanics and Repairers	200	N.A.	0.2
Hand Pressers	1,070	13.6	1.2
Machine Pressers	1,100	13.2	1.2
Truck Drivers	210	8.4	0.2
Carpenters	50	8.1	0.1
Electricians	70	7.4	0.1
Industrial Truck Operators	150	11.1	0.2
Inspectors	3,260	5.0	3.7
Instructors, Apparel and Textile Machines	280	10.8	0.3
Machinists	90	15.6	0.1
Maintenance Repairers, General Utility	200	12.9	0.2
Trades Helpers	70	34.5	0.1
Order Fillers	580	11.8	0.7
Production Packagers	1,090	8.3	1.2
Sewing Machine Operators, Regular Equipment - Garment	38,580	2.5	43.7

APPAREL AND OTHER FINISHED PRODUCTS
MADE FROM FABRICS AND SIMILAR MATERIALS
(SIC 23)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Sewing Machine Operators, Special Equipment - Garment	4,240	14.0	4.8
Sewing Machine Operators, Regular Equipment - Nongarment	2,860	19.6	3.2
Sewing Machine Operators, Special Equipment - Nongarment	1,470	18.9	1.7
Bundlers	1,240	5.4	1.4
Cloth Printers	100	26.8	0.1
Cutters, Portable Machine	620	8.3	0.7
Die Cutters	190	10.9	0.2
Fusing Machine Operators	140	15.7	0.2
Garment Repairers	340	9.9	0.4
Knitting Machine Operators	310	17.4	0.4
Belt Makers, Apparel	50	22.2	0.1
Pattern Cutters	70	12.7	0.1
Patternmakers	80	13.0	0.1
Pleating Machine Operators	310	16.7	0.4
Sample Makers	220	10.8	0.3
Shapers and Pressers	170	31.3	0.2
Slitting Machine Operators	250	19.7	0.3
Spot Cleaners	130	13.1	0.1
Spreaders	940	6.1	1.1
Testers	80	14.1	0.1
Thread Trimmers	700	12.8	0.8
Work Distributors	1,430	6.5	1.6
Markers	220	7.3	0.2
Cutters, Hand	540	9.8	0.6
Turners	710	8.5	0.8
Folders, Hand	2,440	8.1	2.8
Folding Machine Operators	100	27.1	0.1
Soabar Operators	150	10.2	0.2
Gluers and/or Cementers, Hand	70	23.3	0.1
Cutters, Machine	380	13.8	0.4
Other Skilled Workers	220	N.A.	0.2
Other Semiskilled Workers	2,380	N.A.	2.7
Other Unskilled Workers	3,150	N.A.	3.6
Clerical Workers	6,640	N.A.	7.5
Supervisors	290	9.3	0.3
Office Machine Operators	420	N.A.	0.5
Bookkeeping and/or Billing Machine Operators	50	17.9	0.1
Computer Operators	110	8.4	0.1
Keypunch Operators	260	18.4	0.3
Accounting Clerks	370	14.0	0.4
Bookkeepers, Hand	90	19.5	0.1

APPAREL AND OTHER FINISHED PRODUCTS
MADE FROM FABRICS AND SIMILAR MATERIALS
(SIC 23)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
File Clerks	50	16.9	0.1
General Office Clerks	700	7.2	0.8
Order Clerks	290	15.9	0.3
Payroll and/or Timekeeping Clerks	480	4.8	0.5
Personnel Clerks	120	7.0	0.1
Procurement Clerks	60	9.5	0.1
Receptionists	50	15.3	0.1
Secretaries	260	8.9	0.3
Switchboard Operators/Receptionists	110	7.5	0.1
Typists	90	12.2	0.1
Production Clerks and/or Coordinators	280	10.0	0.3
Shipping Packers	1,330	6.5	1.5
Shipping and Receiving Clerks	580	5.9	0.7
Stock Clerks, Stockroom and Warehouse	490	7.0	0.6
Shade-Ticket Markers	210	11.8	0.2
Other Clerical Workers	370	N.A.	0.4
Sales Workers	510	N.A.	0.6
Sales Representatives	340	15.0	0.4
Sales Clerks	170	15.4	0.2

LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE
(SIC 24)

Establishments in this group are primarily engaged in cutting timber and pulpwood; sawmills, lath mills, shingle mills, cooperage stock mills, planing mills, plywood mills, and veneer mills. Also included in this category are establishments that manufacture finished articles made entirely or mainly of wood or wood substitutes.

Nearly 80 percent of the firms in this group are in the smallest size class. Below is a table which shows the percent distribution of establishments and employment by establishment size in this group.

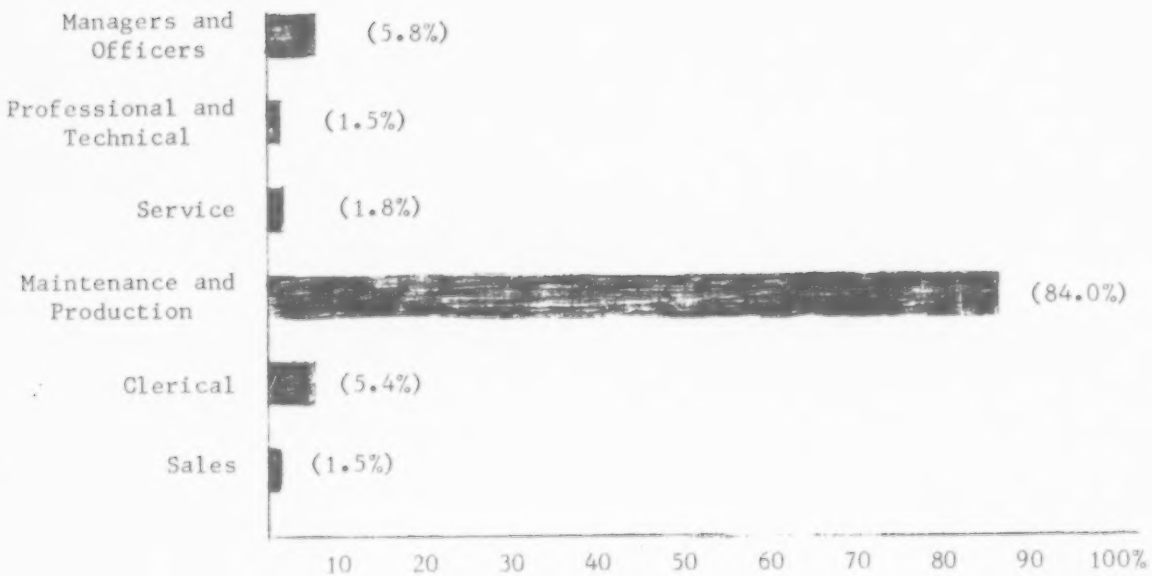
Establishment Size	Percent of Establishments	Percent of Employment
19 or fewer employees	79.8	26.2
20 - 49 employees	11.8	19.4
50 - 99 employees	4.8	17.9
100 or more employees	3.6	36.5

The ten specific occupations in which the most workers were employed in May, 1980 are shown in the following table. These occupations had 33.6 percent of the group's employment.

Occupation	Estimated Industry Employment	Percent Distribution
Managers and Officers	2,020	5.8
Assemblers	1,920	5.5
Truck Drivers	1,460	4.1
Fallers and/or Buckers	1,390	4.0
Chain Offbearers, Lumber	1,290	3.7
Offbearers	1,190	3.4
Logging Tractor Operators	1,080	3.1
Supervisors	910	2.6
Industrial Truck Drivers	800	2.3
Wood Sanders	750	2.1

The following graph illustrates the employment by major occupational group.

PERCENT DISTRIBUTION OF LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY IN NORTH CAROLINA, MAY, 1980



LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE
(SIC 24)
May, 1930

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Total Employment	35,070	N.A.	100.0
Managers and Officers	2,020	3.2	5.8
Professional and Technical Workers	520	N.A.	1.5
Engineers	40	N.A.	0.1
Purchasing Agents and/or Buyers	60	6.9	0.2
Accountants and Auditors	160	10.8	0.4
Personnel and Labor Relations Specialists	20	9.8	0.1
Other Professional Workers	40	N.A.	0.1
Drafters	40	23.1	0.1
Timber Cruisers	100	20.4	0.3
Other Technical Workers	60	N.A.	0.2
Service Workers	640	N.A.	1.8
Service Supervisors	30	22.1	0.1
Janitors, Porters, and Cleaners	350	6.1	1.0
Guards and Doorkeepers	260	7.8	0.7
Maintenance and Production Workers	29,470	N.A.	84.0
Supervisors	910	4.0	2.6
Mechanics and Repairers	410	N.A.	1.1
Automotive Mechanics	110	13.1	0.3
Engineering - Equipment Mechanics	50	25.5	0.1
Maintenance Mechanics	210	10.7	0.6
Other Mechanics and Repairers	40	32.0	0.1
Truck Drivers	1,460	4.1	4.1
Cabinetmakers	300	14.7	0.9
Carpenters	520	15.4	1.5
Delivery and Route Workers	90	19.1	0.3
Electricians	140	8.9	0.4
Industrial Truck Drivers	800	5.8	2.3
Inspectors	270	12.1	0.8
Machinists	40	28.3	0.1
Maintenance Repairers, General Utility	490	6.9	1.4
Trades Helpers	590	13.1	1.7
Millwrights	80	30.1	0.2
Order Fillers	30	15.6	0.1
Plumbers and/or Pipefitters	60	12.9	0.2
Production Packagers	290	14.2	0.8
Stationary Boiler Firers	150	10.1	0.4
Logging Tractor Operators	1,080	6.0	3.1
Welders and Flamecutters	70	10.1	0.2
Power-Barker Operators	310	7.9	0.9
Band-Scroll Saw Operators	60	19.6	0.2
Boring-Machine Operators	110	20.0	0.3

LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE (SIC 24)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Carrier Drivers	60	21.2	0.2
Chain Offbearers, Lumber	1,290	7.4	3.7
Chasers	60	21.4	0.2
Chippers	200	10.8	0.6
Choker Setters, Lumber	150	16.5	0.4
Auto Clippers, Veneer	240	10.4	0.7
Cut-Off-Saw Operators, Lumber	560	6.7	1.6
Cut-Off-Sawyers, Log	30	34.0	0.1
Edge Gluers	90	22.6	0.3
Edgers, Automatic and/or Pony	480	7.9	1.4
Fallers and/or Buckers	1,390	6.8	4.0
Gang Sawyers	20	18.0	0.1
Gluing-Machine Operators	90	17.2	0.3
Head Loaders	90	14.3	0.3
Head Sawyers	480	6.5	1.4
Hot-Plate Press Operators	80	16.5	0.2
Hydraulic Press Operators, Veneer	30	25.6	0.1
Lay-Out Markers, Wood	30	26.5	0.1
Kiln Operators, Lumber	50	16.9	0.1
Lathe Operators, Wood	50	31.1	0.1
Loaders, Car and Truck	440	14.2	1.3
Loader Engineers	230	8.5	0.7
Log Handling Equipment Operators	390	7.9	1.1
Log Inspectors, Graders, and/or Scalers	200	10.1	0.6
Lumber Graders	240	9.1	0.7
Lumber Straighteners	300	12.0	0.9
Machine Setters, Woodworking	180	13.9	0.5
Wood Machinists	530	14.3	1.5
Nailing Machine Operators	280	10.1	0.8
Off-Bearers	1,190	7.4	3.4
Resawyers	180	12.2	0.5
Rigging Slingers	60	25.3	0.2
Ripsaw Operators	580	7.2	1.7
Wood Sanders	750	10.5	2.1
Saw Filers	150	10.3	0.4
Second Loaders	30	25.4	0.1
Shapers and/or Routers	160	17.2	0.4
Kiln Stacker Operators	60	11.8	0.2
Tenoner Operators	60	16.9	0.2
Testers	30	29.2	0.1
Transfer Controllers	20	24.1	0.1
Trim Saw Operators	350	8.9	1.0
Variety Saw Operators	230	11.5	0.7
Veneer Driers	140	10.7	0.4
Veneer Graders	340	11.9	0.9
Veneer-Lathe Operators	60	14.4	0.2

LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE
(SIC 24)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Veneer Sanders	60	22.1	0.2
Woodworking-Machine Operators	570	11.3	1.6
Yarder Engineers	70	25.2	0.2
Production Painters	300	18.7	0.9
Conveyor Operators or Tenders	30	26.5	0.1
Veneer Drier Feeders	210	8.8	0.6
Veneer Jointer Operators	60	21.6	0.2
Veneer Repairers, Hand	30	34.1	0.1
Core Feeders	70	13.8	0.2
Core Layers and/or Sheet Turners	170	11.6	0.5
Planer Operators	250	11.9	0.7
Sorter Operators, Green Lumber	50	9.2	0.1
Gluers and/or Cementers, Hand	80	24.7	0.2
Assemblers	1,920	7.6	5.5
Mixers and/or Blenders, Chemical	30	18.6	0.1
Other Skilled Workers	170	N.A.	0.5
Other Semiskilled Workers	1,680	N.A.	4.8
Other Unskilled Workers	2,810	N.A.	8.0
Clerical Workers	1,900	N.A.	5.4
Supervisors	20	15.8	0.1
Office Machine Operators	60	N.A.	0.2
Computer Operators	20	13.2	0.1
Keypunch Operators	20	5.6	0.1
Other Machine Operators	20	N.A.	0.1
Accounting Clerks	100	9.3	0.3
Bookkeepers, Hand	300	8.0	0.9
General Office Clerks	380	6.5	1.1
Payroll and/or Timekeeping Clerks	50	14.4	0.1
Secretaries	320	7.5	0.9
Switchboard Operators/Receptionists	30	7.2	0.1
Production Clerks and/or Coordinators	80	24.1	0.2
Shipping Packers	270	8.9	0.8
Shipping and Receiving Clerks	60	9.1	0.2
Stock Clerks, Stockroom and Warehouse	60	13.1	0.2
Other Clerical Workers	170	N.A.	0.5
Sales Workers	520	N.A.	1.5
Sales Representatives	490	5.7	1.4
Other Sales Workers	30	N.A.	0.1

FURNITURE AND FIXTURES
(SIC 25, EXCEPT 259)

Establishments in this group are engaged in the manufacture of household, office, public building, and restaurant furniture; and office and store fixtures. This group does not include hospital, laboratory, beauty, or barber shop furniture makers.

The following table shows the percent distribution of establishments and employment by establishment size. The largest size class accounts for 86 percent of the employment although the smallest size class accounts for 39 percent of the firms.

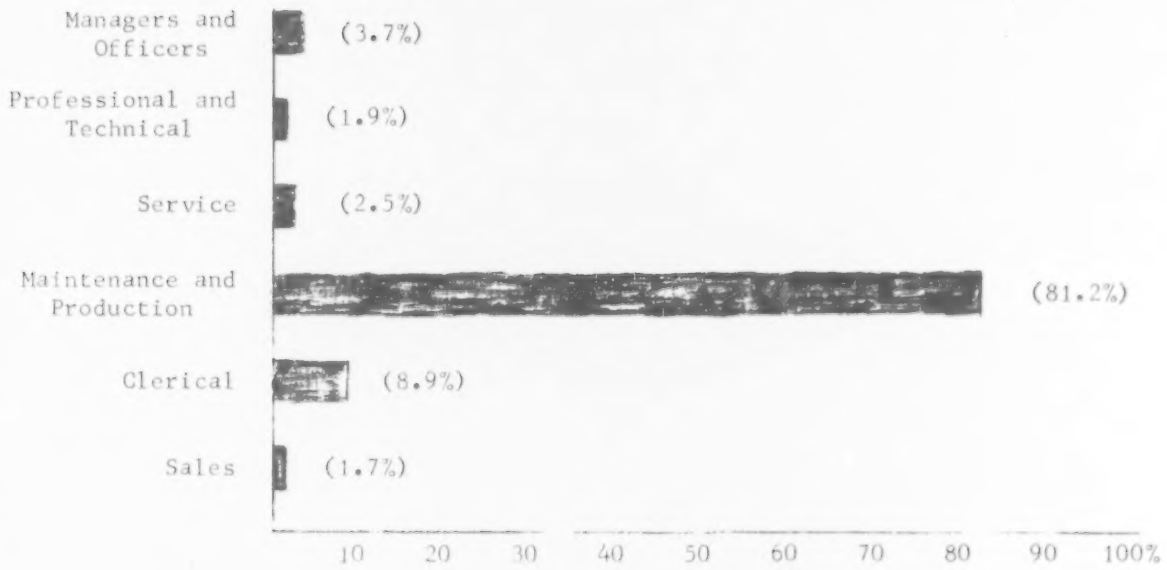
Establishment Size	Percent of Establishments	Percent of Employment
19 or fewer employees	39.0	2.0
20 - 49 employees	18.5	4.5
50 - 99 employees	13.7	7.2
100 or more employees	28.8	86.3

The following table lists the ten specific occupations in this group in which the most workers were employed as of June, 1980. These occupations had nearly 42 percent of the total employment in the furniture and fixtures group.

Occupation	Estimated Industry Employment	Percent Distribution
Assemblers	6,860	8.3
Upholsterers	4,600	5.6
Sewing Machine Operators, Regular Equipment-Nongarment	4,040	4.9
Wood Sanders	3,390	4.1
Managers and Officers	3,040	3.7
Supervisors	3,010	3.7
Rubbers	2,880	3.5
Off-bearers	2,810	3.4
Upholsterer Cutters	2,010	2.5
Production Packagers	1,690	2.1

Illustrated in the following graph is employment by the major occupational groups.

PERCENT DISTRIBUTION OF FURNITURE AND FIXTURES EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY IN NORTH CAROLINA, JUNE, 1980



FURNITURE AND FIXTURES
(SIC 25, EXCEPT 259)
June, 1980

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Total Employment	82,150	N.A.	100.0
Managers and Officers	3,040	8.7	3.7
Professional and Technical Workers	1,550	N.A.	1.9
Engineers	270	N.A.	0.3
Industrial Engineers	230	15.3	0.3
Mechanical Engineers	40	16.5	0.1
Purchasing Agents and/or Buyers	210	9.5	0.3
Accountants and Auditors	270	17.1	0.3
Personnel and Labor Relations Specialists	220	7.6	0.3
Designers	150	14.0	0.2
Other Professional Workers	140	N.A.	0.2
Computer Programmers	120	13.3	0.1
Drafters	90	13.7	0.1
Other Technicians	80	N.A.	0.1
Service Workers	2,080	N.A.	2.5
Supervisors	340	20.1	0.4
Janitors, Porters, and Cleaners	760	7.8	0.9
Guards and Doorkeepers	460	8.0	0.6
Other Service Workers	520	N.A.	0.6
Maintenance and Production Workers	66,740	N.A.	81.2
Supervisors	3,010	3.8	3.7
Mechanics and Repairers	300	N.A.	0.4
Automotive Mechanics	80	20.9	0.1
Maintenance Mechanics	180	11.2	0.2
Other Mechanics and Repairers	40	N.A.	0.1
Truck Drivers	1,0 0	12.4	1.3
Cabinetmakers	390	13.2	0.5
Delivery and Route Workers	100	34.9	0.1
Electricians	100	8.2	0.1
Filers, Grinders, and Buffers	350	15.6	0.4
Industrial Truck Operators	710	8.7	0.9
Inspectors	1,430	7.3	1.7
Laminating Machine Operators, Furniture	90	21.4	0.1
Machinists	150	15.0	0.2
Maintenance Repairers, General Utility	710	9.2	0.9
Trades Helpers	670	23.2	0.8
Order Fillers	180	19.2	0.2
Production Packagers	1,690	7.7	2.1
Sewing Machine Operators, Regular Equipment - Nongarment	4,040	9.3	4.9
Stationary Boiler Firers	160	20.8	0.2

FURNITURE AND FIXTURES
(SIC 25, EXCEPT 259)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Welders and Flamecutters	390	34.4	0.5
Furniture Finishers	1,070	14.6	1.3
Band-Scroll Saw Operators	520	17.3	0.6
Boring-Machine Operators	760	16.7	0.9
Wood-Carving-Machine Operators	180	12.6	0.2
Cut-Off-Saw Operators, Lumber	630	14.8	0.8
Dado Operators	100	13.6	0.1
Dowel Machine Operators	160	30.4	0.2
Drill-Press Operators	50	21.9	0.1
Gluing Machine Operators	390	7.8	0.5
Grinding Machine Operators, Metal	90	13.5	0.1
Hot Plate Press Operators	90	12.5	0.1
Hydraulic Press Operators, Veneer	130	16.1	0.2
Lay-Out Markers, Wood	260	20.3	0.3
Lathe Operators, Wood	260	10.8	0.3
Machine-Setters, Woodworking	760	12.5	0.9
Wood Machinists	360	23.7	0.4
Mortising-Machine Operators	180	24.3	0.2
Nailing-Machine Operators	440	13.9	0.5
Off-Bearers	2,810	6.7	3.4
Patternmakers	90	22.8	0.1
Plastic-Top Installers	70	20.1	0.1
Power-Screwdriver Operators	500	12.8	0.6
Rip-Groove Machine Operators	100	17.6	0.1
Ripsaw Operators	950	14.7	1.2
Rubbers	2,880	13.4	3.5
Wood Sanders	3,390	8.2	4.1
Shapers, Hand	180	10.5	0.2
Shapers and/or Routers	670	7.7	0.8
Sorters, Upholstery Parts	440	19.4	0.5
Spring-Machine Operators	110	34.4	0.1
Springers	1,320	13.9	1.6
Tenoner Operators	430	14.3	0.5
Testers	110	24.6	0.1
Upholstery Trimmers	870	19.7	1.1
Variety Saw Operators	420	10.0	0.5
Woodworking-Machine Operators	1,040	11.4	1.3
Production Painters	1,680	7.3	2.0
Upholsterers	4,600	9.5	5.6
Upholsterer Cutters	2,010	10.5	2.5
Power Brake and/or Bending Machine Operators	60	28.0	0.1
Gluers and/or Cementers, Hand	670	11.8	0.8
Cushion Makers	750	15.0	0.9
Assemblers	6,860	6.4	8.3
Decorators, Hand	210	14.1	0.3
Other Skilled Workers	1,710	N.A.	2.1

FURNITURE AND FIXTURES
(SIC 25, EXCEPT 259)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Other Semiskilled Workers	4,280	N.A.	5.2
Other Unskilled Workers	5,590	8.7	6.8
Clerical Workers	7,340	N.A.	8.9
Supervisors	300	31.1	0.4
Office Machine Operators	390	N.A.	0.5
Computer Operators	130	17.1	0.2
Keypunch Operators	180	9.3	0.2
Other Office Machine Operators	80	N.A.	0.1
Stenographers	90	16.6	0.1
Accounting Clerks	290	15.8	0.4
Bookkeepers, Hand	160	25.8	0.2
File Clerks	200	17.2	0.2
General Office Clerks	940	9.3	1.1
Order Clerks	330	16.0	0.4
Payroll and/or Timekeeping Clerks	260	13.4	0.3
Personnel Clerks	150	8.9	0.2
Procurement Clerks	110	27.2	0.1
Secretaries	450	15.4	0.5
Statistical Clerks	60	26.6	0.1
Switchboard Operators/Receptionists	170	14.1	0.2
Typists	220	16.9	0.3
Production Clerks and/or Coordinators	400	9.9	0.5
Shipping Packers	1,250	10.7	1.5
Shipping and Receiving Clerks	630	8.3	0.8
Stock Clerks, Stockroom and Warehouse	530	25.7	0.6
Other Clerical Workers	410	N.A.	0.5
Sales Workers	1,400	N.A.	1.7
Sales Representatives	1,400	16.7	1.7

PAPER AND ALLIED PRODUCTS
(SIC 26, EXCEPT 261)

This major grouping includes those establishments primarily engaged in the manufacture of pulps from wood, cellulose fibers, and rags; the manufacture of paper and paperboard into converted products such as paper bags, boxes, and envelopes. It does not include abrasive paper, carbon paper, photosensitized or blueprint paper.

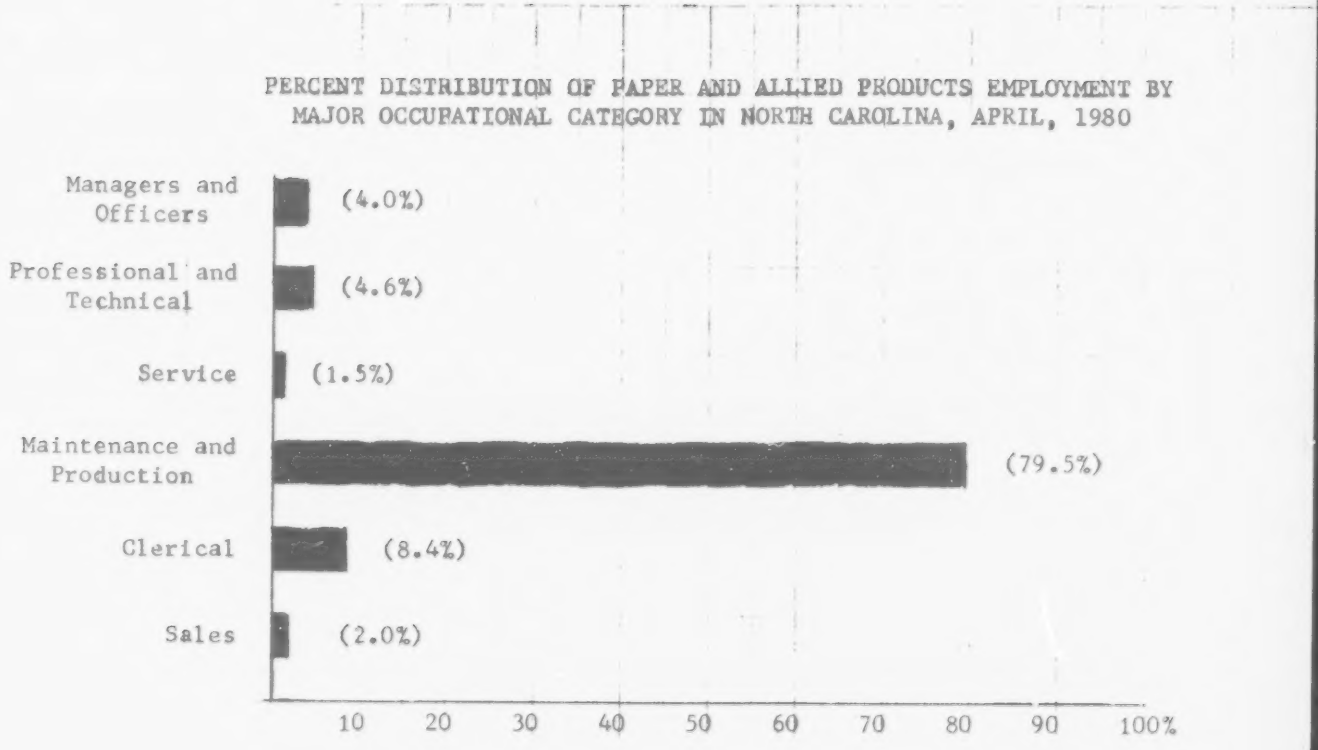
The following table shows the percent distribution of establishments and employment by establishment size. Firms in this group show a fairly uniform distribution among size classes; however, the largest size class accounts for 82 percent of the employment.

Establishment Size	Percent of Establishments	Percent of Employment
19 or fewer employees	32.1	2.3
20 - 49 employees	23.0	6.2
50 - 99 employees	16.4	9.3
100 or more employees	28.5	82.2

The following table lists the ten specific occupations of this industry in which the most workers were employed in April, 1980. These occupations had 25 percent of the total employment for this group.

Occupation	Estimated Industry Employment	Percent Distribution
Supervisors	1,040	4.9
Managers and Officers	840	4.0
Slitting Machine Operators	580	2.7
Industrial Truck Drivers	550	2.6
Press Operators and/or Plate Printers	440	2.1
Production Packagers	440	2.1
Sales Representatives	430	2.0
Millwrights	370	1.7
Truck Drivers	350	1.6
Paper Reel or Rewinder Operators	280	1.4

Below is a graph which illustrates employment by the major occupational group.



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PAPER AND ALLIED PRODUCTS
(SIC 26, EXCEPT 261)
April, 1980

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Total Employment	21,080	N.A.	100.0
Managers and Officers	840	6.8	4.0
Professional and Technical Workers	960	N.A.	4.6
Engineers	240	N.A.	1.1
Chemical Engineers	50	21.8	0.3
Electrical and Electronic Engineers	20	11.8	0.1
Industrial Engineers	40	9.0	0.2
Mechanical Engineers	50	22.0	0.2
Other Engineers	80	23.7	0.4
Chemists	40	10.9	0.2
Systems Analysts	20	33.7	0.1
Purchasing Agents and/or Buyers	50	9.6	0.3
Accountants and Auditors	120	12.0	0.6
Personnel and Labor Relations Specialists	120	18.1	0.6
Designers	20	19.7	0.1
Other Professional Workers	160	N.A.	0.8
Computer Programmers	40	23.7	0.2
Drafters	20	16.1	0.1
Other Engineering Technicians	50	N.A.	0.3
Other Technicians	80	N.A.	0.4
Service Workers	320	N.A.	1.5
Supervisors	90	18.6	0.4
Janitors, Porters, and Cleaners	150	8.0	0.7
Guards and Doorkeepers	60	8.7	0.3
Other Service Workers	20	N.A.	0.1
Maintenance and Production Workers	16,760	N.A.	79.5
Supervisors	1,040	4.1	4.9
Mechanics and Repairers	310	N.A.	1.5
Automotive Mechanics	60	8.7	0.3
Maintenance Mechanics	250	19.3	1.2
Truck Drivers	350	12.6	1.6
Carpenters	40	7.7	0.2
Delivery and Route Workers	70	20.6	0.3
Electricians	260	4.6	1.2
Industrial Truck Operators	550	6.3	2.6
Instrument Repairers	120	11.5	0.6
Machinists	120	11.5	0.6
Maintenance Repairers, General Utility	190	14.6	0.9
Millwrights	370	10.1	1.7
Oilers	80	11.5	0.4
Order Fillers	130	17.6	0.6

PAPER AND ALLIED PRODUCTS
(SIC 26, EXCEPT 261)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Maintenance Painters	50	6.1	0.2
Plumbers and/or Pipefitters	220	9.7	1.1
Press Operators and/or Plate Printers	440	15.5	2.1
Production Packagers	440	15.1	2.1
Scrappers and/or Strippers	150	18.3	0.7
Stationary Boiler Firers	140	12.1	0.7
Welders and Flamecutters	110	18.4	0.5
Back Tenders	150	12.9	0.7
Beater Engineers	50	12.2	0.2
Beaters	40	22.4	0.2
Box Makers, Paperboard	190	21.5	0.9
Carton-Forming-Machine Operators	40	32.1	0.2
Chemical Operators A	60	19.1	0.3
Corner Cutters	20	33.9	0.1
Corrugator-Knife Operators	40	13.3	0.2
Corrugator Operators	80	20.4	0.4
Cutting and Creasing Press Operators	90	21.3	0.4
Cylinder-Machine Tenders	40	25.2	0.2
Die Cutters	100	15.8	0.5
Die Makers	40	17.6	0.2
Die Mounters	40	19.3	0.2
Digester Operators	60	9.4	0.3
Digester-Operator Helpers	110	8.5	0.5
Evaporator Operators, Paper	30	8.2	0.1
Flexo-Folder-Gluer Operators	100	15.4	0.5
Fourdrinier-Machine Tenders	130	14.7	0.6
Wood Grinder Operators	40	32.3	0.2
Layboy Tenders	30	31.1	0.2
Machine Setters, Paper Goods	160	26.8	0.8
Paper Reel or Rewinder Operators	280	33.9	1.4
Printer-Slotter Operators	180	12.3	0.8
Printer-Slotter Feeders	120	17.3	0.6
Scorers	40	23.7	0.2
Slitter-Creaser-Slotter Operators	20	30.9	0.1
Slitter-Scorer-Cut-Off Operators	20	32.0	0.1
Slitting-Machine Operators	580	24.0	2.7
Stapling-Machine Operators	40	26.9	0.2
Taping-Machine Operators	110	17.9	0.5
Testers	170	12.0	0.8
Waxing Machine Operators	20	22.4	0.1
Winders, Paper Machine	100	5.4	0.5
Wrapping-Machine Operators	110	29.1	0.5
Conveyor Operators and/or Tenders	70	22.7	0.3
Fourth and/or Fifth Hands, Paper Machine	100	20.6	0.5
Bailing-Machine Operators	140	8.8	0.7

PAPER AND ALLIED PRODUCTS
(SIC 26, EXCEPT 261)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Cutters, Machine	90	15.9	0.4
Mixers and/or Blenders, Chemical	60	31.4	0.3
Other Skilled Workers	870	N.A.	4.1
Other Semiskilled Workers	3,740	N.A.	17.7
Other Unskilled Workers	3,080	N.A.	14.6
Clerical Workers	1,770	N.A.	8.4
Supervisors	90	14.7	0.4
Office Machine Operators	120	N.A.	0.6
Bookkeeping and/or Billing Machine Operators	40	21.8	0.2
Computer Operators	40	10.4	0.2
Keypunch Operators	40	10.3	0.2
Accounting Clerks	130	11.0	0.6
General Office Clerks	120	15.0	0.5
Order Clerks	60	20.9	0.3
Payroll and/or Timekeeping Clerks	60	17.7	0.3
Personnel Clerks	40	8.1	0.2
Procurement Clerks	20	12.4	0.1
Secretaries	230	8.4	1.1
Statistical Clerks	30	21.4	0.1
Switchboard Operators/Receptionists	40	19.7	0.2
Typists	40	20.7	0.2
Box Estimators, Paperboard Products	40	14.1	0.2
Production Clerks and/or Coordinators	120	12.5	0.6
Shipping and Receiving Clerks	130	14.1	0.6
Stock Clerks, Stockroom and Warehouse	60	16.2	0.3
Other Clerical Workers	440	N.A.	2.1
Sales Workers	430	N.A.	2.0
Sales Representatives	430	2.0	2.0

PRINTING, PUBLISHING, AND ALLIED INDUSTRIES
(SIC 27)

Establishments included in this group print by one or more common processes; also included are firms that perform services for the printing trade, such as bookbinding, engraving, etc. Establishments that are engaged in publishing newspapers, books, and periodicals, regardless of whether or not they print their own materials are also included in this group.

The smallest size class accounts for 78 percent of the firms; however, nearly 50 percent of the employment is in the largest size class. The following table shows the percent distribution of establishments and employment by establishment size.

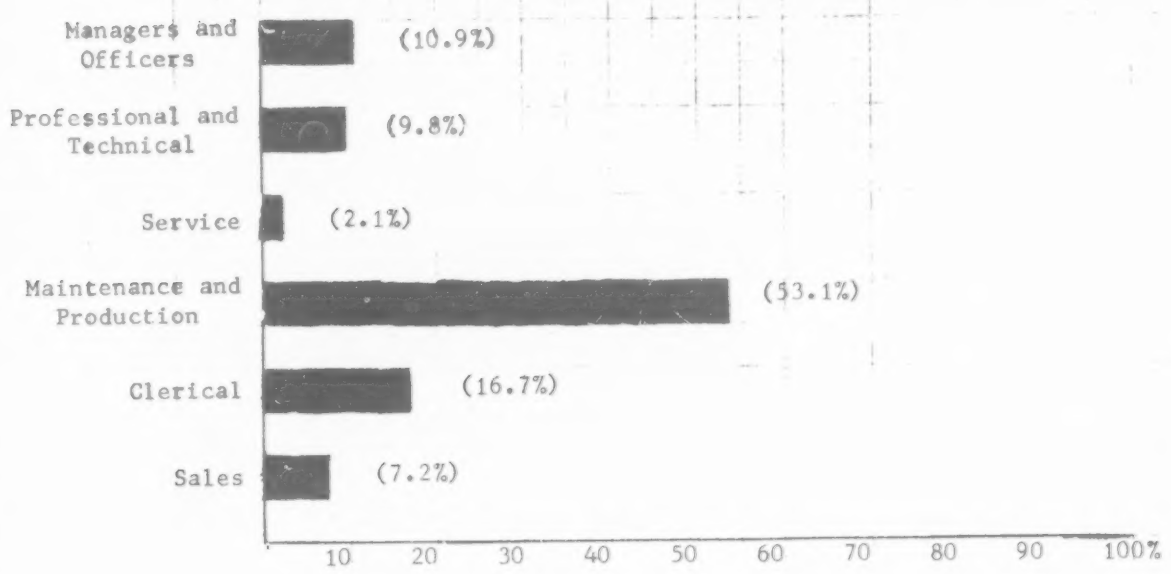
Establishment Size	Percent of Establishments	Percent of Employment
19 or fewer employees	77.8	19.0
20 - 49 employees	12.3	16.1
50 - 99 employees	5.8	17.2
100 or more employees	4.1	47.7

The ten specific occupations in the printing trades group in which the most workers were employed in May, 1980 are listed in the following table. These occupations had 43 percent of the total employment.

Occupation	Estimated Industry Employment	Percent Distribution
Managers and Officers	2,240	10.9
Offset Lithographic Press Operators	1,290	6.3
Sales Representatives	1,200	5.8
Letter Press Operators, Sheet, Roll, or Web Feed	720	3.5
Reporters and Correspondents	710	3.4
Bindery Workers, Assembly	640	3.1
Pasteup Men/Women	540	2.6
Strippers	530	2.6
Writers and/or Editors	530	2.6
Secretaries	470	2.3

The following graph illustrates employment by the major occupational groups.

PERCENT DISTRIBUTION OF PRINTING, PUBLISHING, AND ALLIED INDUSTRIES EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY IN NORTH CAROLINA, MAY, 1980



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PRINTING, PUBLISHING, AND ALLIED INDUSTRIES
(SIC 27)
May, 1980

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Total Employment	20,550	N.A.	100.0
Managers and Officers	2,240	2.5	10.9
Professional and Technical Workers	2,020	N.A.	9.8
Photographers	120	4.9	0.6
Purchasing Agents and Buyers	40	9.4	0.2
Accountants and Auditors	40	11.1	0.2
Commercial Artists	140	10.0	0.7
Writers and/or Editors	530	7.1	2.6
Librarians, Professional	30	16.8	0.1
Personnel and Labor Relations Specialists	20	10.6	0.1
Reporters and Correspondents	710	8.7	3.4
Designers	50	10.8	0.2
Estimators, Printing Services	60	14.3	0.3
Other Professional Workers	110	N.A.	0.5
Computer Programmers	60	21.5	0.3
Drafters	70	25.2	0.3
Electrical and Electronic Technicians	40	27.6	0.2
Service Workers	440	N.A.	2.1
Supervisors	20	19.7	0.1
Janitors, Porters, and Cleaners	280	5.8	1.4
Other Service Workers	140	N.A.	0.7
Maintenance and Production Workers	10,930	N.A.	53.1
Supervisors	470	10.3	2.3
Maintenance Mechanics	80	14.8	0.4
Developers and/or Projection Printers	30	19.1	0.1
Truck Drivers	90	28.4	0.4
Delivery and Route Workers	460	8.5	2.2
Industrial Truck Operators	100	17.1	0.5
Inspectors	160	20.7	0.8
Machinists	20	22.8	0.1
Maintenance Repairers, General Utility	60	17.2	0.3
Order Fillers	80	27.3	0.4
Production Packagers	160	15.0	0.8
Offset Lithographic Press Operators	1,290	6.4	6.3
Platemakers	220	10.8	1.1
Strippers	530	11.1	2.6
Camera Operators, Printing	450	6.9	2.2
Conveyor Operators and/or Tenders	30	12.9	0.1
Copy Markers	50	19.0	0.2

PRINTING, PUBLISHING, AND ALLIED INDUSTRIES
(SIC 27)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Hand Compositors	240	15.4	1.2
Imposers and Makeup Arrangers	100	20.3	0.5
Line Cast Machine Operators	140	14.5	0.7
Pasteup Men/Women	540	6.9	2.6
Phototypesetting-Machine Keyboard Operators	90	11.2	0.4
Phototypesetting-Machine Monitors	100	10.4	0.5
Phototypesetter Operators	60	14.2	0.3
Proofreaders, Composed Copy	250	10.8	1.2
Photoengravers	140	16.8	0.7
Flexographic Press Operators	80	33.8	0.4
Ink Workers	30	22.6	0.2
Letter Press Operators, Sheet, Roll, or Web Feed	720	10.3	3.5
Letterset Press Operators, Sheet, Roll, or Web Feed	110	11.9	0.5
Press Assistants and Feeders	350	17.6	1.7
Setters, Binder Machines	100	21.7	0.5
Mailers	270	7.6	1.3
Cutters, Machine	110	20.0	0.5
Bookbinders, Hand	60	25.0	0.3
Bookbinders, Machine	300	13.9	1.5
Bindery Workers, Assembly	640	14.3	3.1
Bindery Workers, Stitching	110	18.6	0.5
Other Bindery Workers	480	N.A.	2.3
Other Skilled Workers	310	N.A.	1.5
Other Semiskilled Workers	480	N.A.	2.3
Other Unskilled Workers	840	N.A.	4.1
Clerical Workers	3,440	N.A.	16.7
Supervisors	80	24.0	0.4
Office Machine Operators	210	N.A.	1.0
Bookkeeping and/or Billing Machine Operators	30	13.3	0.1
Computer Operators	30	10.2	0.2
Keypunch Operators	70	17.9	0.4
Other Office Machine Operators	80	N.A.	0.4
Accounting Clerks	180	11.1	0.6
Bookkeepers, Hand	340	8.4	1.7
Cashiers	30	12.8	0.1
File Clerks	40	17.8	0.2
General Office Clerks	380	11.2	1.8
Order Clerks	50	18.0	0.3
Payroll and/or Timekeeping Clerks	40	8.7	0.2
Personnel Clerks	20	11.5	0.1
Receptionists	20	21.2	0.1
Secretaries	440	6.3	2.1

PRINTING, PUBLISHING, AND ALLIED INDUSTRIES
(SIC 27)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Switchboard Operators	40	14.4	0.2
Switchboard Operators/Receptionists	70	8.3	0.3
Messengers	60	11.8	0.3
Typists	470	8.4	2.3
Circulation Clerks	180	18.9	0.9
Classification-Ad Clerks	50	14.1	0.3
Customer Service Representatives, Printing and Publishing	110	8.8	0.5
Telephone Ad-Takers	140	5.0	0.7
Production Clerks and/or Coordinators	80	9.2	0.4
Shipping Packers	70	16.9	0.3
Shipping and Receiving Clerks	170	10.6	0.8
Stock Clerks, Stockroom and Warehouse	20	19.6	0.1
Other Clerical Workers	150	N.A.	0.7
Sales Workers	1,480	N.A.	7.2
Sales Representatives	1,200	5.1	5.8
Other Sales Workers	280	N.A.	1.3

CHEMICALS AND ALLIED PRODUCTS
(SIC 28)

This major group includes those establishments primarily engaged in the production of products made predominantly by chemical processes. The production of basic chemicals, chemical products to be further manufactured, and finished chemical products to be used for consumption, as in soap or drugs are also included in this category.

The percent distribution of establishments and employment by establishment size are shown in the following table. As may be seen, 88 percent of the employment is in the largest size class, but nearly 50 percent of the firms are in the smallest size class.

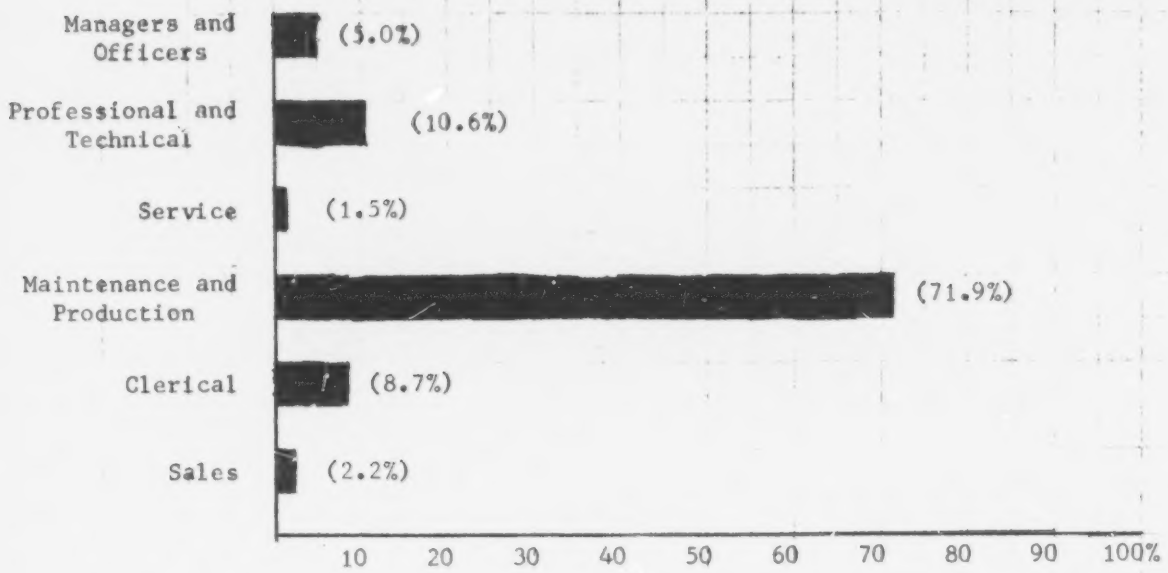
Establishment Size	Percent of Establishments	Percent of Employment
19 or fewer employees	49.1	2.3
20 - 49 employees	21.2	4.5
50 - 99 employees	10.0	4.5
100 or more employees	19.7	88.5

The following table lists the ten specific occupations of the chemical industry in which the most workers were employed in June of 1980. These occupations had 42 percent of the group's employment.

Occupation	Estimated Industry Employment	Percent Distribution
Production Packagers	3,630	9.0
Spinners, Synthetic Filaments	2,230	5.5
Supervisors	2,090	5.2
Maintenance Mechanics	2,020	5.0
Managers and Officers	2,020	5.0
Chemical Operators, A	1,170	2.9
Inspectors	1,120	2.8
Draw Machine Operators	1,040	2.6
Sales Representatives	840	2.1
Creelers, Yarn	820	2.0

Employment by major occupational group is illustrated in the following graph.

PERCENT DISTRIBUTION OF CHEMICALS AND ALLIED PRODUCTS EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY IN NORTH CAROLINA, JUNE, 1980



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CHEMICALS AND ALLIED PRODUCTS
(SIC 28)
June, 1980

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Total Employment	40,220	N.A.	100.0
Managers and Officers	2,020	7.1	5.0
Professional and Technical Workers	4,280	N.A.	10.6
Engineers	1,020	N.A.	2.5
Chemical Engineers	480	11.2	1.2
Electrical and Electronic Engineers	60	9.3	0.1
Industrial Engineers	170	23.3	0.4
Mechanical Engineers	230	4.5	0.6
Safety Engineers	20	7.9	0.1
Other Engineers	60	N.A.	0.1
Chemists	680	9.3	1.7
Systems Analysts	100	9.9	0.2
Purchasing Agents and/or Buyers	120	8.0	0.3
Accountants and Auditors	240	11.9	0.6
Professional Nurses	40	12.1	0.1
Personnel and Labor Relations Specialists	130	6.0	0.3
Other Professional Workers	200	N.A.	0.5
Computer Programmers	60	4.7	0.1
Drafters	40	13.6	0.1
Electrical and Electronic Technicians	70	25.2	0.2
Industrial Engineering Technicians	20	23.2	0.1
Physical Science Technicians	290	16.0	0.7
Biological Science Technicians	610	26.4	1.5
Other Engineering Technicians	360	N.A.	0.9
Other Science Technicians	120	N.A.	0.3
Other Technicians	180	N.A.	0.5
Service Workers	610	N.A.	1.5
Supervisors	30	24.6	0.1
Janitors, Porters, and Cleaners	450	14.1	1.1
Guards and Doorkeepers	110	17.6	0.3
Other Service Workers	20	N.A.	0.1
Maintenance and Production Workers	28,920	N.A.	71.9
Supervisors	2,090	4.5	5.2
Mechanics and Repairers	2,150	N.A.	5.3
Automotive Mechanics	50	30.6	0.1
Maintenance Mechanics	2,020	8.4	5.0
Refrigeration and/or Air Conditioning Mechanics	30	25.0	0.1
Other Mechanics and Repairers	50	N.A.	0.1
Truck Drivers	330	13.1	0.8
Carpenters	50	16.7	0.1
Crane, Derrick, and Hoist Operators	20	16.3	0.1

CHEMICALS AND ALLIED PRODUCTS
(SIC 28)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Electricians	220	20.3	0.5
Industrial Truck Operators	700	9.6	1.7
Inspectors	1,120	14.7	2.8
Instrument Repairers	140	19.8	0.3
Loaders, Tank Cars and/or Trucks	50	23.4	0.1
Machinists	120	15.9	0.3
Maintenance Repairers, General Utility	340	14.6	0.8
Trades Helpers	100	15.4	0.2
Oilers	40	29.2	0.1
Maintenance Painters	30	7.5	0.1
Plumbers and/or Pipefitters	140	26.2	0.3
Production Packagers	3,630	9.6	9.0
Stationary Boiler Firers	60	26.2	0.1
Stationary Engineers	90	10.7	0.2
Welders and Flamecutters	40	26.0	0.1
Beam-Warper Tenders	450	29.1	1.1
Chemical Operators, A	1,170	7.8	2.9
Chemical Operators, B	490	16.3	1.2
Chemical Operator Helpers	190	23.5	0.5
Creelers, Yarn	820	15.9	2.0
Draw Machine Operators	1,040	19.3	2.6
Spinners, Synthetic Filaments	2,230	15.6	5.5
Sterilizers	140	5.8	0.3
Testers	650	12.8	1.6
Chief Operators	390	25.9	0.9
Waste Treatment Plant Operators	60	22.1	0.1
Weighers, Production	170	28.5	0.4
Cutters, Machine	160	26.9	0.4
Grinder Operators, Chemicals, Plastic, Rubber	540	24.7	1.3
Extruder Operators, Plastic	110	30.7	0.3
Filter and/or Filter Press Operators	80	33.7	0.2
Tinters	80	11.9	0.2
Mixers and/or Blenders, Chemical	940	15.5	2.3
Other Skilled Workers	210	N.A.	0.5
Other Semiskilled Workers	4,990	N.A.	12.4
Other Unskilled Workers	2,550	N.A.	6.3
Clerical Workers	3,500	N.A.	8.7
Supervisors	70	15.1	0.2
Office Machine Operators	270	N.A.	0.6
Computer Operators	80	5.2	0.2
Keypunch Operators	130	10.5	0.3
Other Office Machine Operators	60	N.A.	0.1
Stenographers	150	17.1	0.4
Accounting Clerks	330	11.0	0.8

CHEMICALS AND ALLIED PRODUCTS
(SIC 28)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Bookkeepers, Hand	40	20.3	0.1
File Clerks	30	12.1	0.1
General Office Clerks	260	15.5	0.6
Order Clerks	190	14.1	0.5
Payroll and/or Timekeeping Clerks	60	14.3	0.2
Personnel Clerks	90	5.2	0.2
Procurement Clerks	70	14.3	0.2
Secretaries	530	7.7	1.3
Statistical Clerks	60	27.8	0.2
Switchboard Operators/Receptionists	60	9.9	0.1
Typists	150	22.7	0.4
Production Clerks and/or Coordinators	190	16.1	0.5
Shipping Packers	360	21.7	0.9
Shipping and Receiving Clerks	230	11.9	0.6
Stock Clerks, Stockroom and Warehouse	180	11.5	0.4
Other Clerical Workers	180	N.A.	0.4
Sales Workers	890	N.A.	2.2
Sales Representatives	840	11.3	2.1
Other Sales Workers	50	N.A.	0.1

RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS
(SIC 30)

Establishments engaged in the manufacture of rubber tires, rubber footwear, mechanical rubber goods, heels and soles, flooring, and rubber sundries are included in this major grouping. Tire manufacturing, but not recapping or retreading, is included in this category. These firms manufacture from natural, synthetic, or reclaimed rubber, gutta percha, balata, or gutta siak. This group also includes the molding of primary plastics and manufacturing miscellaneous finished plastic products.

The smallest size class has nearly 45 percent of the firms, but accounts for only 4 percent of the employment. The following table shows the percent distribution of establishments and employment by establishment size.

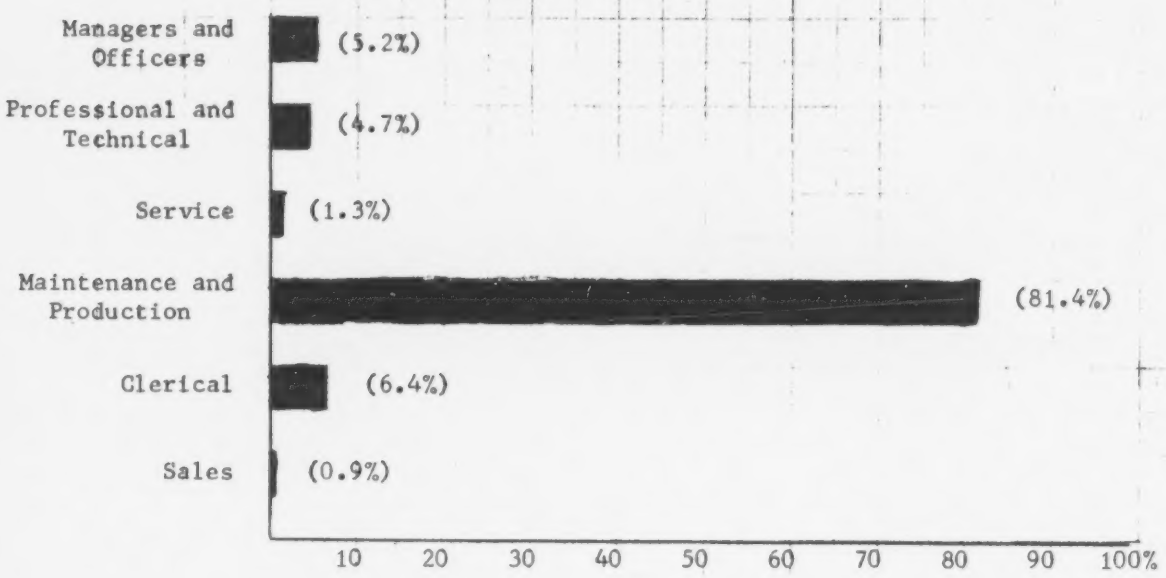
Establishment Size	Percent of Establishments	Percent of Employment
19 or fewer employees	44.6	3.6
20 - 49 employees	21.5	7.0
50 - 99 employees	11.6	8.4
100 or more employees	22.3	81.0

As may be observed, the following table lists the ten specific occupations in the rubber and plastics products group in which the most workers were employed in June, 1980. These occupations accounted for 34.6 percent of the total employment.

Occupation	Estimated Industry Employment	Percent Distribution
Compression and/or Injection-Molding-Machine Operators, Plastics	1,450	6.2
Managers and Officers	1,230	5.2
Supervisors	1,060	4.5
Sewing Machine Operators, Regular Equipment-Nongarment	950	4.1
Assemblers	850	3.6
Inspectors	700	3.0
Industrial Truck Operators	600	2.6
Extruder Operators, Plastics or Rubber	600	2.6
Rubber-Mill Operators	320	1.4
Extruder Operator Helpers	320	1.4

The graph below illustrates employment by the major occupational groups.

PERCENT DISTRIBUTION OF RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY IN NORTH CAROLINA, JUNE, 1980



RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS
(SIC 30)
June, 1980

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Total Employment	23,440	N.A.	100.0
Managers and Officers	1,230	6.6	5.2
Professional and Technical Workers	1,110	N.A.	4.7
Engineers	290	N.A.	1.2
Chemical Engineers	30	25.5	0.1
Electrical and Electronic Engineers	40	14.2	0.2
Industrial Engineers	80	8.7	0.4
Mechanical Engineers	80	8.8	0.3
Other Engineers	60	N.A.	0.3
Purchasing Agents and/or Buyers	60	7.3	0.3
Accountants and Auditors	110	14.5	0.5
Professional Nurses	20	5.9	0.1
Personnel and Labor Relations Specialists	60	5.5	0.3
Designers	20	28.0	0.1
Other Professional Workers	170	N.A.	0.7
Computer Programmers	20	17.3	0.1
Drafters	30	11.4	0.1
Industrial Engineering Technicians	20	31.9	0.1
Science Technicians	100	12.2	0.4
Other Engineering Technicians	190	N.A.	0.8
Other Technicians	20	N.A.	0.1
Service Workers	300	N.A.	1.3
Janitors, Porters, and Cleaners	240	12.5	1.0
Guards and Doorkeepers	60	15.8	0.3
Maintenance and Production Workers	19,100	N.A.	81.4
Supervisors	1,060	4.9	4.5
Mechanics and Repairers	340	N.A.	1.5
Maintenance Mechanics	280	11.3	1.2
Other Mechanics and Repairers	60	N.A.	0.3
Truck Drivers	190	22.0	0.8
Carpenters	30	14.7	0.1
Electricians	100	17.3	0.4
Industrial Truck Operators	600	5.7	2.6
Inspectors	700	19.3	3.0
Instrument Repairers	150	32.8	0.6
Machinists	230	33.0	0.9
Maintenance Repairers, General Utility	280	18.0	1.2
Trades Helpers	60	7.6	0.3
Millwrights	50	17.1	0.2
Oilers	30	14.7	0.1
Order Fillers	180	12.2	0.8

RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS
(SIC 30)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Sewing Machine Operators, Regular Equipment - Nongarment	950	2.4	4.1
Stationary Boiler Firers	20	24.2	0.1
Tool and Die Makers	110	20.3	0.5
Welders and Flamecutters	30	20.0	0.1
Bias Machine Operators	120	9.9	0.5
Braiding Machine Tenders	50	25.8	0.2
Chemical Operator Helpers	110	27.2	0.5
Curers, Rubber Goods	80	6.7	0.3
Die Cutters	30	14.8	0.1
Finishers, Hand	230	22.9	0.9
Rubber-Mill Operators	320	4.5	1.4
Rubber Goods Cutters-Finishers	110	23.4	0.5
Splicers	50	12.7	0.2
Testers	50	18.3	0.2
Trimmers, Plastics	110	23.1	0.5
Press Tenders, Rubber Goods	260	6.9	1.1
Production Painters	120	25.4	0.5
Compression/Injection Molders	1,450	13.9	6.2
Conveyor Operators or Tenders	30	15.0	0.1
Setters, Plastic Molding Machine	100	21.3	0.4
Drier Operators, Chemicals, Plastic Resins Rubber	50	34.7	0.2
Weighers, Production	130	20.4	0.5
Cutters, Machine	60	16.8	0.2
Embossing, Stamping, and/or Marking Machine Operators	90	30.1	0.4
Grinder Operators, Chemicals, Plastics, Rubber	100	11.8	0.4
Calender Operators, Plastics or Rubber	140	17.2	0.6
Extruder Operators, Plastics or Rubber	600	23.8	2.6
Extruder Operator Helpers	320	33.7	1.4
Assemblers	850	19.6	3.6
Calender Operator Helpers	170	13.8	0.7
Other Skilled Workers	900	N.A.	3.8
Other Semiskilled Workers	4,620	N.A.	19.7
Other Unskilled Workers	2,740	N.A.	11.7
Clerical Workers	1,490	N.A.	6.4
Supervisors	40	9.4	0.2
Office Machine Operators	80	N.A.	0.3
Computer Operators	40	5.4	0.2
Keypunch Operators	40	4.8	0.2
Stenographers	40	17.2	0.2

RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS
(SIC 30)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Accounting Clerks	80	9.7	0.3
General Office Clerks	90	19.1	0.4
Order Clerks	20	20.8	0.1
Payroll and/or Timekeeping Clerks	40	7.2	0.2
Personnel Clerks	30	6.3	0.1
Procurement Clerks	20	8.3	0.1
Secretaries	200	12.9	0.9
Statistical Clerks	20	14.9	0.1
Switchboard Operators/Receptionists	50	4.8	0.2
Typists	70	9.4	0.3
Production Clerks and/or Coordinators	160	5.4	0.7
Shipping Packers	180	17.7	0.8
Shipping and Receiving Clerks	160	11.1	0.7
Stock Clerks, Stockroom and Warehouse	140	14.7	0.6
Other Clerical Workers	70	N.A.	0.3
Sales Workers	210	N.A.	0.9
Sales Representatives	190	12.4	0.8
Sales Clerks	20	25.5	0.1

LEATHER AND LEATHER PRODUCTS, EXCEPT LUGGAGE AND HANDBAGS (SIC 31, EXCEPT 316 AND 317)

Establishments in this major group are concerned primarily with tanning, currying, and finishing hides and skins. It also includes firms manufacturing finished leather, artificial leather, and similar products made of other materials.

The following table shows the percent distribution of establishments and employment by establishment size. The largest size class accounted for nearly 90 percent of the total employment for this group.

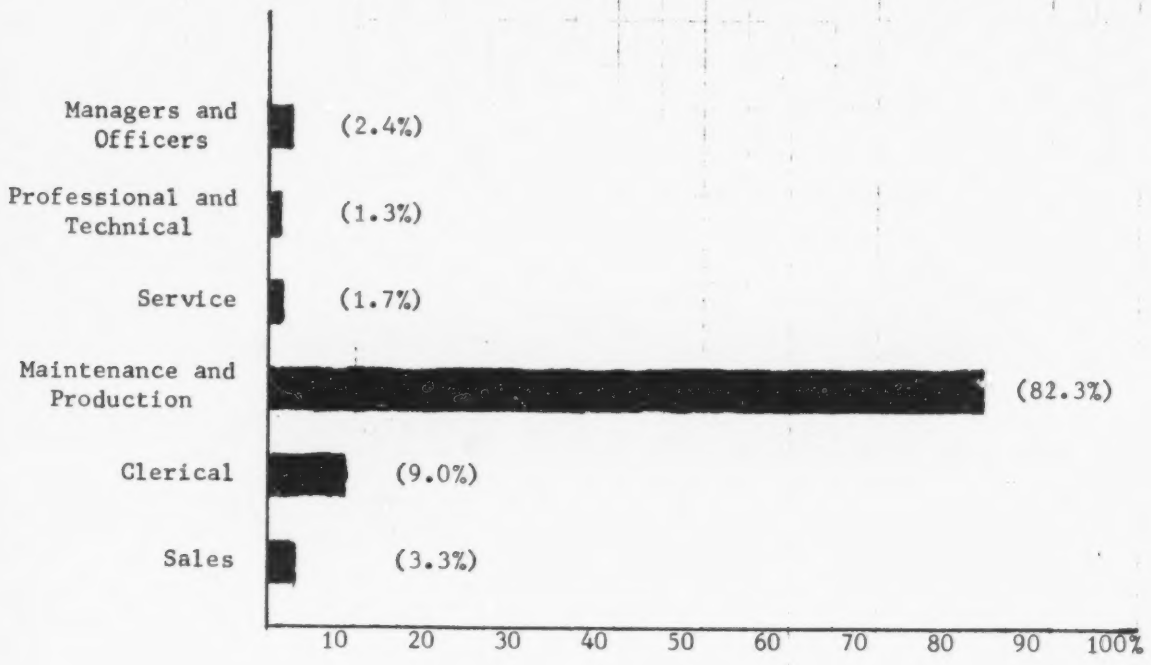
Establishment Size	Percent of Establishments	Percent of Employment
19 or fewer employees	46.1	3.1
20 - 49 employees	15.4	4.8
50 - 99 employees	7.7	5.9
100 or more employees	30.8	86.2

The following table lists the five specific occupations in the leather group in which the most workers were employed in April, 1980. These occupations accounted for 31.5 percent of the group's employment.

Occupation	Estimated Industry Employment	Percent Distribution
Sewing Machine Operators, Special and/or Automatic Equipment - Nongarment	420	9.2
Sewing Machine Operators, Regular Equipment - Nongarment	390	8.6
Stitchers, Standard Machine	260	5.6
Die Cutters	220	4.9
Stitchers, Utility	150	3.2

The graph below illustrates employment by major occupational group.

PERCENT DISTRIBUTION OF LEATHER AND LEATHER PRODUCTS, EXCEPT LUGGAGE AND HANDBAGS
EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY IN NORTH CAROLINA, APRIL, 1980



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LEATHER AND LEATHER PRODUCTS, EXCEPT LUGGAGE AND HANDBAGS
(SIC 31, EXCEPT 316 AND 317)
April, 1980

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Total Employment	4,550	N.A.	100.0
Managers and Officers	110	5.1	2.4
Professional and Technical Workers	60	N.A.	1.3
Service Workers	80	N.A.	1.7
Janitors, Porters, and Cleaners	40	2.3	0.9
Guards and Doorkeepers	20	0.0	0.4
Other Service Workers	20	N.A.	0.4
Maintenance and Production Workers	3,740	N.A.	82.3
Supervisors	140	1.6	3.0
Maintenance Mechanics	40	4.6	0.9
Inspectors	90	3.3	2.0
Production Packagers	60	1.8	1.2
Sewing Machine Operators, Regular Equipment - Nongarment	390	4.8	8.6
Sewing Machine Operators, Special and/or Automatic Equipment-Nongarment	420	0.7	9.2
Skivers	50	2.0	1.1
Machine Trimmers	20	5.9	0.5
Assemblers for Full-Over	40	5.6	0.9
Bed Lasters	30	0.0	0.6
Bottom Fillers	30	0.0	0.6
Buffers, Shoe Parts	50	2.1	1.0
Cementers, Machine Joiner	50	1.8	1.2
Perforator Operators	20	0.0	0.4
Cobblers	20	0.0	0.5
Die Cutters	220	2.6	4.9
Flamers	20	5.6	0.4
Floor Workers, Footwear	40	4.3	0.9
Heel Attachers	20	0.0	0.4
Heel-Seat Lasters, Machine	20	5.6	0.4
Hand Lasters	20	6.2	0.4
Finish Repairers	60	2.2	1.4
Rough Rounders	30	0.0	0.6
Side Lasters	30	0.0	0.7
Leather Sorters	20	6.7	0.3
Sprayers, Hand or Machine	30	0.0	0.6
Stitchers, Special Machine	50	4.2	1.2
Stitchers, Standard Machine	260	6.6	5.6
Stitchers, Utility	150	6.6	3.2
Toe Lasters	40	3.6	0.9
Treers	40	4.3	0.9
Conveyor Operators/Tenders	20	0.0	0.4
Hand Cementers	130	2.2	2.9
Eyelet Machine Operators	70	4.9	1.6
Pulling and Lasting-Machine Operators	30	5.6	0.7

LEATHER AND LEATHER PRODUCTS, EXCEPT LUGGAGE AND HANDBAGS
(SIC 31, EXCEPT 316 AND 317)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Hand Cutters	40	12.0	1.0
Hand Gluers/Cementers	40	5.4	0.9
Embossing, Stamping, and Marking Machine Operators	30	2.9	0.7
Assemblers	20	14.0	0.4
Other Skilled Workers	90	N.A.	2.0
Other Semiskilled Workers	430	N.A.	9.5
Other Unskilled Workers	340	N.A.	7.5
Clerical Workers	410	N.A.	9.0
Clerical Supervisors	20	26.8	0.5
Accounting Clerks	20	12.0	0.6
General Office Clerks	30	8.4	0.6
Payroll and/or Timekeeping Clerks	30	0.0	0.6
Secretaries	40	5.3	0.8
Production Clerks and/or Coordinators	50	4.3	1.1
Shipping Packers	50	2.6	1.2
Shipping and Receiving Clerks	40	0.8	0.8
Stock Clerks, Stockroom and Warehouse	40	6.2	0.8
Other Clerical Workers	90	N.A.	2.0
Sales Workers	150	N.A.	3.3
Sales Representatives	150	12.5	3.3

STONE, CLAY, GLASS, AND CONCRETE PRODUCTS EXCEPT HYDRAULIC CEMENT AND MISCELLANEOUS NONMETALLIC MINERAL PRODUCTS (SIC 32, EXCEPT 329)

Establishments in this group are primarily engaged in manufacturing glass, brick, structural clay tile, vitreous china plumbing fixtures, and concrete, gypsum, and plaster products. It also includes the manufacture of cut stone and stone products and asbestos.

The following table shows the percent distribution of establishments and employment by establishment size. Although 61 percent of the firms are in the smallest size class, over 63 percent of the employment is with firms of 100 or more employees.

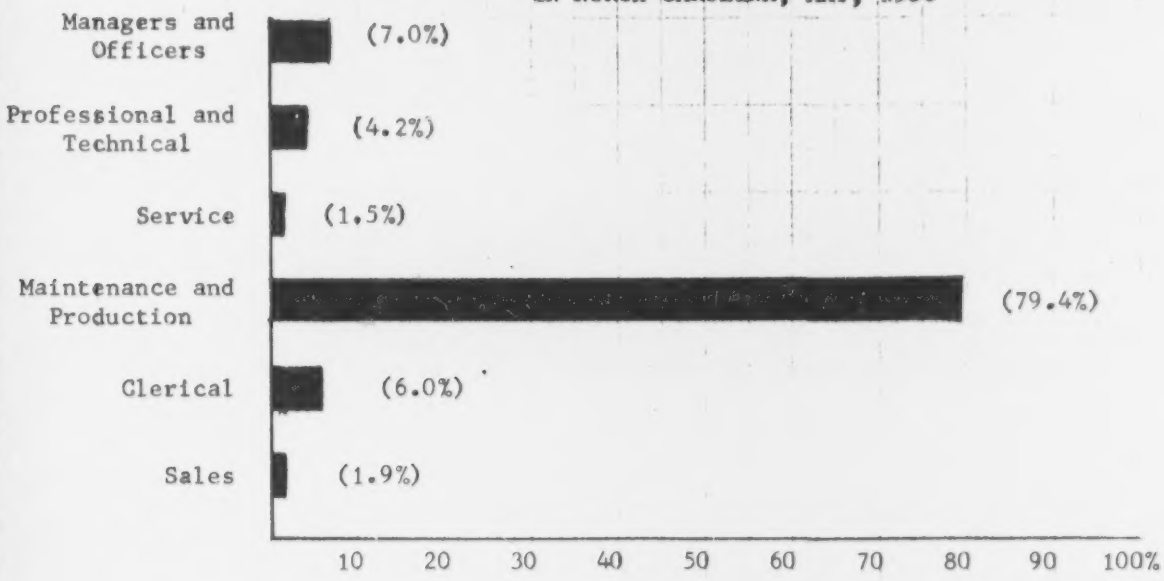
Establishment Size	Percent of Establishments	Percent of Employment
19 or fewer employes	61.4	9.8
20 - 49 employees	24.1	16.8
50 - 99 employees	6.7	10.2
100 or more employees	7.8	63.2

The following table lists the ten specific occupations in this group in which the most workers were employed. These occupations accounted for 34.7 percent of the total employment for this group.

Occupation	Estimated Industry Employment	Percent Distribution
Truck Drivers	1,520	9.6
Managers and Officers	1,110	7.0
Supervisors	550	3.5
Industrial Truck Operators	530	3.3
Production Packagers	410	2.6
Maintenance Mechanics	320	2.0
Sales Representatives	300	1.9
Furnace, Kiln, and/or Drier Operators	280	1.8
Maintenance Repairers, General Utility	280	1.7
Automotive Mechanics	200	1.3

The graph below illustrates employment by major occupational category.

PERCENT DISTRIBUTION OF STONE, CLAY, GLASS, AND CONCRETE PRODUCTS EXCEPT HYDRAULIC CEMENT AND MISCELLANEOUS NONMETALLIC MINERAL PRODUCTS EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY IN IN NORTH CAROLINA, MAY, 1980



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STONE, CLAY, GLASS, AND CONCRETE PRODUCTS
EXCEPT HYDRAULIC CEMENT AND MISCELLANEOUS NONMETALLIC MINERAL PRODUCTS
(SIC 32, EXCEPT 329)
May, 1980

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Total Employment	15,920	N.A.	100.0
Managers and Officers	1,110	4.7	7.0
Professional and Technical Workers	670	N.A.	4.2
Electrical and Electronic Engineers	20	15.8	0.1
Industrial Engineers	40	8.5	0.2
Mechanical Engineers	70	11.5	0.5
Ceramic Engineers	30	16.9	0.2
Systems Analysts	20	31.2	0.2
Purchasing Agents and/or Buyers	30	11.0	0.2
Accountants and Auditors	40	7.7	0.3
Professional Nurses	30	10.9	0.2
Personnel and Labor Relations Specialists	30	5.1	0.2
Other Professional Workers	50	N.A.	0.3
Computer Programmers	30	10.2	0.2
Drafters	40	13.8	0.3
Electrical and Electronic Technicians	60	7.0	0.3
Other Technicians	180	N.A.	1.1
Service Workers	240	N.A.	1.5
Janitors, Porters, and Cleaners	180	9.3	1.1
Guards and Doorkeepers	40	13.0	0.3
Other Service Workers	20	N.A.	0.1
Maintenance and Production Workers	12,640	N.A.	79.4
Supervisors	550	5.5	3.5
Mechanics and Repairers	580	N.A.	3.6
Automotive Mechanics	200	6.2	1.3
Maintenance Mechanics	320	5.7	2.0
Other Mechanics and Repairers	60	N.A.	0.3
Truck Drivers	1,520	6.2	9.6
Concrete Rubbers	150	20.2	0.9
Crane, Derrick, and Hoist Operators	40	18.2	0.2
Delivery and Route Workers	180	21.5	1.1
Machine Drillers	40	29.0	0.3
Electricians	70	12.9	0.4
Heavy Equipment Operators	80	10.6	0.5
Riggers	50	30.8	0.3
Industrial Truck Operators	530	5.8	3.3
Inspectors	200	14.3	1.2
Maintenance Repairers, General Utility	280	17.5	1.7
Trades Helpers	30	34.1	0.2
Order Fillers	40	18.4	0.3
Pipe Strippers	70	24.5	0.5
Production Packagers	410	3.2	2.6

STONE, CLAY, GLASS, AND CONCRETE PRODUCTS
EXCEPT HYDRAULIC CEMENT AND MISCELLANEOUS NONMETALLIC MINERAL PRODUCTS
(SIC 32, EXCEPT 329)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Refraction Materials Repairers	20	18.7	0.1
Welders and Flamecutters	100	22.4	0.6
Blockmaking Machine Operators	190	14.1	1.2
Breakers	40	26.6	0.2
Brick and Tile Machine Operators	80	17.0	0.5
Cage Makers	80	17.0	0.5
Casters, Pottery and Porcelain	40	25.5	0.2
Concrete Pipe Makers	110	18.8	0.7
Concrete Stone Fabricators	120	22.5	0.7
Glass Cut Off Machine Operators	90	13.2	0.6
Stone Sandblasters	20	13.2	0.1
Stone Sawyers	50	4.1	0.3
Second Cutters, Hand	70	34.3	0.4
Setters and/or Drawers	200	24.4	1.2
Sorters	120	24.1	0.7
Conveyor Operators and/or Tenders	70	17.2	0.4
Mixers, Stone, Clay, and Glass	90	23.9	0.6
Mill and/or Grinder Operators, Minerals	60	14.9	0.4
Model and/or Mold Makers	30	28.9	0.2
Furnace, Kiln, and/or Drier Operators	280	11.7	1.8
Batch Plant Operators	180	8.2	1.1
Other Skilled Workers	180	N.A.	1.1
Other Semiskilled Workers	4,530	N.A.	28.5
Other Unskilled Workers	1,070	N.A.	6.7
Clerical Workers	960	N.A.	6.0
Clerical Supervisors	20	20.7	0.1
Stenographers	20	17.9	0.2
Accounting Clerks	80	10.9	0.4
Bookkeepers, Hand	140	6.4	0.9
General Office Clerks	120	9.5	0.7
Order Clerks	20	28.3	0.1
Payroll and/or Timekeeping Clerks	30	10.9	0.2
Secretaries	150	10.3	0.9
Switchboard Operators/Receptionists	20	14.1	0.1
Production Clerks and/or Coordinators	50	6.6	0.3
Shipping Packers	50	21.4	0.3
Shipping and Receiving Clerks	40	17.9	0.3
Stock Clerks, Stockroom and Warehouse	20	13.6	0.1
Vehicle Dispatchers	120	7.9	0.8
Other Clerical Workers	80	N.A.	0.5
Sales Workers	300	N.A.	1.9
Sales Representatives	300	7.3	1.9

PRIMARY METALS INDUSTRIES
(SIC 33)

This major group includes establishments primarily engaged in manufacturing pig iron, hot metal, and ferroalloys; iron and steel castings; and rolling, drawing and extruding copper, brass, and bronze. It also includes the manufacture of castings and die castings of aluminum, brass, bronze, etc., and the secondary smelting of nonferrous metals.

The following table shows the percent distribution of establishments and employment by establishment size. Nearly 71 percent of the establishments contain less than 50 employees

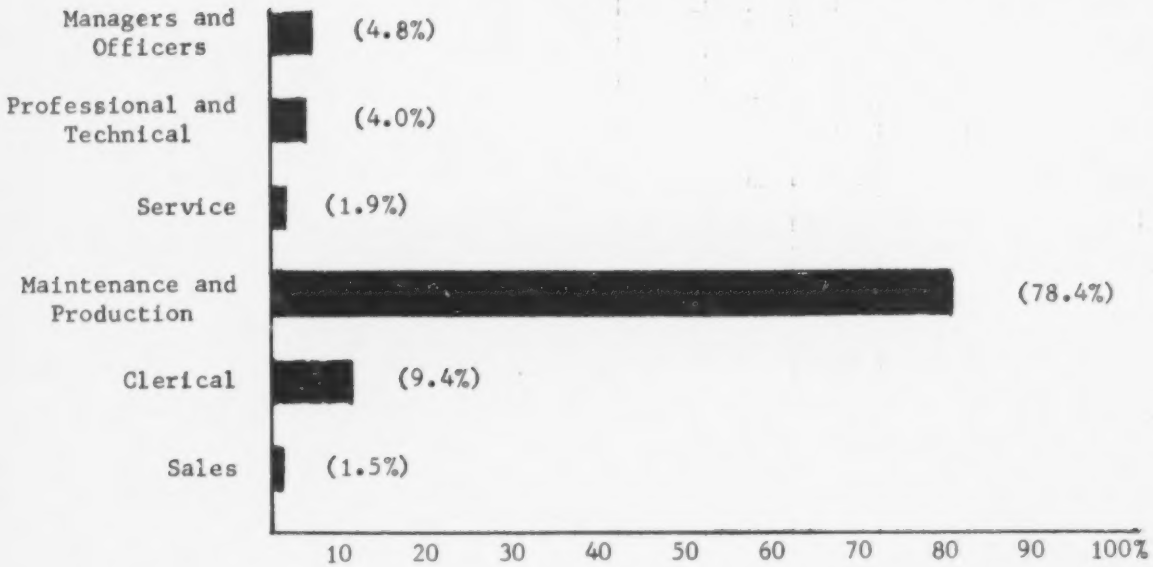
Establishment Size	Percent of Establishments	Percent of Employment
19 or fewer employees	43.1	4.6
20 - 49 employees	27.4	12.9
50 - 99 employees	7.4	7.1
100 or more employees	22.1	75.3

The following table lists the five specific occupations in which the most workers were employed in April, 1980. These occupations accounted for 21.2 percent of the total employment of this group.

Occupation	Estimated Industry Employment	Percent Distribution
Supervisors	440	6.0
Managers and Officers	350	4.8
Assemblers	330	4.5
Maintenance Repairers, General Utility	250	3.4
Production Packagers	190	2.5

The graph below illustrates employment by major occupational category.

PERCENT DISTRIBUTION OF PRIMARY METALS INDUSTRIES EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY IN NORTH CAROLINA, APRIL, 1980



PRIMARY METALS INDUSTRIES
(SIC 33)
April, 1980

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Total Employment	7,350	N.A.	100.0
Managers and Officers	350	6.2	4.8
Professional and Technical Workers	300	N.A.	4.0
Engineers	120	N.A.	1.6
Electrical and Electronic Engineers	20	31.2	0.3
Industrial Engineers	20	6.7	0.3
Mechanical Engineers	40	16.5	0.6
Metallurgical Engineers	20	26.0	0.2
Other Engineers	20	N.A.	0.2
Purchasing Agents and/or Buyers	30	4.4	0.4
Accountants and Auditors	40	23.1	0.5
Personnel and Labor Relations Specialists	20	11.2	0.3
Other Professional Workers	30	N.A.	0.4
Drafters	20	17.6	0.2
Other Technical Workers	40	N.A.	0.6
Service Workers	140	N.A.	1.9
Janitors, Porters, and Cleaners	100	6.9	1.4
Other Service Workers	40	N.A.	0.5
Maintenance and Production Workers	5,760	N.A.	78.4
Supervisors	440	8.8	6.0
Maintenance Mechanics	140	22.4	1.9
Truck Drivers	140	12.8	1.9
Crane, Derrick, and Hoist Operators	90	25.0	1.2
Electricians	40	28.8	0.5
Filers, Grinders, and Buffers	150	12.0	2.0
Industrial Truck Operators	120	10.3	1.6
Inspectors	150	14.9	2.0
Machinists	60	13.1	0.8
Maintenance Repairers, General Utility	250	10.3	3.4
Trades Helpers	80	15.9	1.0
Metal Pourers	80	5.9	1.1
Production Packagers	190	25.0	2.5
Refractory Materials Repairers	30	10.9	0.4
Tool and Die Makers	70	23.7	0.9
Welders and Flamecutters	50	27.3	0.7
Coilers, Winders, and/or Spoolers	110	32.8	1.5
Drill Press Operators	50	12.1	0.7
Machine Coremakers	50	5.9	0.7
Insulating Extruder Machine Operators	100	34.5	1.4
Grinding Machine Operators	110	20.3	1.5
Heat Treaters, Annealers, and/or Temperers	60	16.9	0.8
Machine Tool Operators, Combination	120	5.9	1.6

PRIMARY METALS INDUSTRIES
(SIC 33)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Bench and/or Floor Molders	80	12.1	1.1
Machine Molders	110	10.4	1.5
Wood Patternmakers	20	15.8	0.3
Shakeout Workers	70	9.6	0.9
Stranding Machine Operators	50	34.3	0.7
Testers	70	26.4	1.0
Punch Press Operators	130	27.6	1.7
Furnace Operators and/or Cupola Tenders	80	19.6	1.1
Furnace Operators or Heater Helpers	30	26.9	0.4
Sand Cutters, Mixers, and/or Slingers	20	9.1	0.3
Assemblers	330	26.7	4.5
Other Skilled Workers	300	N.A.	4.1
Other Semiskilled Workers	1,100	N.A.	15.0
Other Unskilled Workers	680	N.A.	9.3
Clerical Workers	690	N.A.	9.4
Computer Operators	20	23.4	0.3
Accounting Clerks	40	19.0	0.5
Bookkeepers, Hand	20	8.7	0.3
General Office Clerks	80	17.9	1.0
Order Clerks	30	16.1	0.5
Payroll and/or Timekeeping Clerks	20	24.9	0.2
Secretaries	80	10.2	1.1
Switchboard Operators/Receptionists	20	12.5	0.2
Typists	20	25.8	0.2
Production Clerks and/or Coordinators	60	10.5	0.9
Shipping Packers	120	20.7	1.6
Shipping and Receiving Clerks	40	11.8	0.6
Stock Clerks, Stockroom and Warehouse	50	16.7	0.7
Other Clerical Workers	90	N.A.	1.2
Sales Workers	110	N.A.	1.5
Sales Representatives	110	19.8	1.5

FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT (SIC 34)

This group of establishments includes those engaged primarily in fabricating products from ferrous and nonferrous metal such as cans, tinware, tools, cutlery, hardware, fabricated structural metal products, metal forgings, stampings, and a variety of metal and wire products not elsewhere classified.

The following table shows the percent distribution of establishments and employment by establishment size of this group. The majority of firms are in the smallest size class, but account for only 7.8 percent of the total employment.

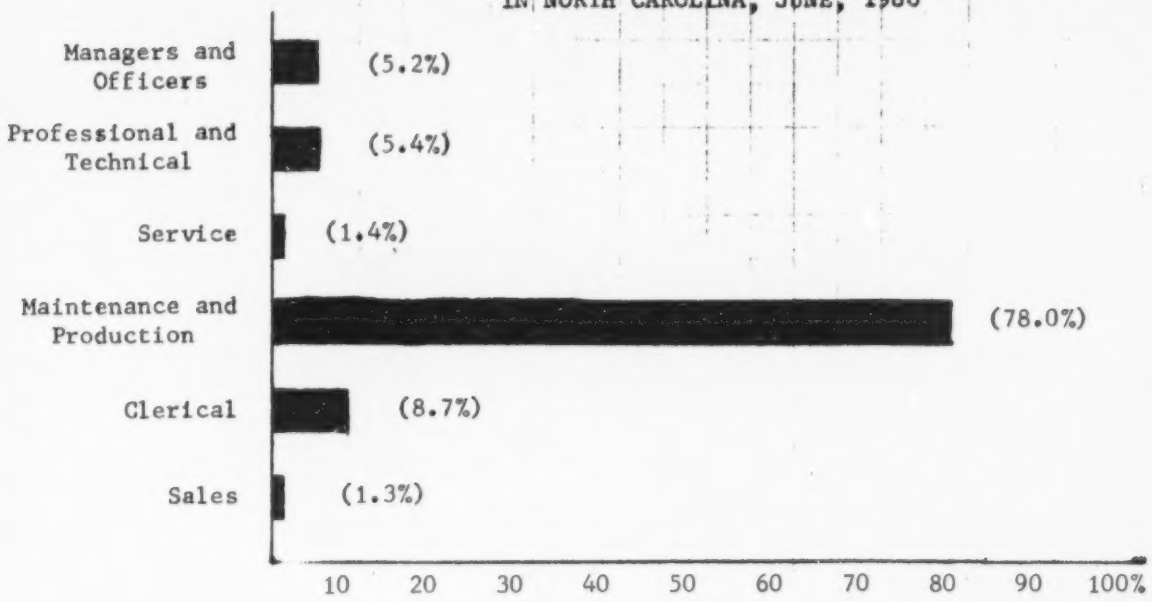
Establishment Size	Percent of Establishments	Percent of Employment
19 or fewer employees	55.1	7.8
20 - 49 employees	21.4	11.8
50 - 99 employees	11.7	13.2
100 or more employees	11.9	67.3

The following table lists the ten specific occupations in this group in which the most workers were employed in June, 1980. These occupations had 37.7 percent of the group's employment.

Occupation	Estimated Industry Employment	Percent Distribution
Assemblers	2,270	8.5
Welders and Flamecutters	1,810	6.8
Managers and Officers	1,390	5.2
Supervisors	940	3.5
Punch Press Operators	800	3.0
Structural Metal Fitters	670	2.5
Machine Tool Operators, Combination	650	2.4
Inspectors	570	2.1
Trades Helpers	570	2.1
Production Painters	430	1.6

The graph below illustrates employment by major occupational category.

PERCENT DISTRIBUTION OF FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY IN NORTH CAROLINA, JUNE, 1980



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FABRICATED METAL PRODUCTS,
EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT
(SIC 34)
June, 1980

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Total Employment	26,750	N.A.	100.0
Managers and Officers	1,390	7.0	5.2
Professional and Technical Workers	1,440	N.A.	5.4
Engineers	300	N.A.	1.1
Electrical and Electronic Engineers	20	21.2	0.1
Industrial Engineers	110	15.5	0.4
Mechanical Engineers	130	8.7	0.5
Other Engineers	40	N.A.	0.2
Systems Analysts	50	25.0	0.2
Purchasing Agents and/or Buyers	120	6.2	0.4
Accountants and Auditors	150	9.8	0.6
Cost Estimators	90	9.8	0.3
Personnel and Labor Relations Specialists	50	6.7	0.2
Designers	20	16.8	0.1
Other Professional Workers	40	N.A.	0.2
Computer Programmers	50	15.9	0.2
Engineering Technicians	480	N.A.	1.8
Drafters	310	9.5	1.2
Tool Programmers, Numerical Control	30	12.4	0.1
Other Engineering Technicians	140	N.A.	0.5
Science Technicians	60	3.6	0.2
Other Technical Workers	30	N.A.	0.1
Service Workers	370	N.A.	1.4
Janitors, Porters, and Cleaners	240	6.0	0.9
Guards and Doorkeepers	60	34.3	0.2
Other Service Workers	70	N.A.	0.3
Maintenance and Production Workers	20,860	N.A.	78.0
Supervisors	940	5.0	3.5
Mechanics and Repairers	480	N.A.	1.8
Automotive Mechanics	40	18.0	0.1
Maintenance Mechanics	380	8.2	1.4
Other Mechanics and Repairers	60	N.A.	0.2
Truck Drivers	320	10.3	1.2
Crane, Derrick, and Hoist Operators	110	13.5	0.4
Electricians	270	6.2	1.0
Filers, Grinders, and Buffers	420	25.8	1.6
Industrial Truck Operators	290	13.9	1.1
Inspectors	570	6.3	2.1
Machinists	150	22.4	0.5
Maintenance Repairers, General Utility	150	19.8	0.6
Trades Helpers	570	15.9	2.1
Metal Fabricators	430	22.6	1.6

FABRICATED METAL PRODUCTS,
EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT
(SIC 34)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Order Fillers	170	11.7	0.6
Maintenance Painters	20	27.8	0.1
Electroplaters	340	16.3	1.3
Plumbers and/or Pipefitters	110	7.8	0.4
Production Packagers	400	14.2	1.5
Roll Forming Machine Operators	30	18.9	0.1
Sandblasters and/or Shotblasters	40	10.2	0.2
Tool and Die Makers	280	9.9	1.0
Welders and Flamecutters	1,810	11.9	6.8
Drill Press Operators	250	18.1	0.9
Grinding Machine Operators	360	18.7	1.4
Heat Treaters	60	7.8	0.2
Lathe Machine Operators	260	14.8	1.0
Lay-Out Markers	250	23.9	0.9
Machine Tool Operators, Combination	650	13.1	2.4
Machine Tool Operators, Numerical Control	260	5.2	1.0
Machine Tool Operators, Tool Room	80	15.5	0.3
Machine Tool Setters	150	20.5	0.6
Milling/Planning Machine Operators	60	22.5	0.2
Plater Helpers	220	28.1	0.8
Metal Sawyers	80	22.0	0.3
Testers	60	12.8	0.2
Production Painters	430	11.1	1.6
Punch Press Operators	800	9.7	3.0
Punch Press Setters	60	14.2	0.2
Shear and/or Slitter Operators	240	16.1	0.9
Dip Platers	70	33.1	0.3
Structural Metal Fitters	670	17.8	2.5
Power Brake and/or Bending Machine Operators	370	12.4	1.4
Assemblers	2,270	16.1	8.5
Other Skilled Workers	1,140	N.A.	4.3
Other Semiskilled Workers	2,790	N.A.	10.4
Other Unskilled Workers	1,380	N.A.	5.2
Clerical Workers	2,330	N.A.	8.7
Clerical Supervisors	70	22.6	0.2
Office Machine Operators	200	N.A.	0.8
Computer Operators	80	8.6	0.3
Keypunch Operators	90	10.5	0.3
Other Office Machine Operators	30	N.A.	0.1
Stenographers	60	17.6	0.2
Accounting Clerks	150	12.0	0.6
Bookkeepers, Hand	160	17.3	0.6
File Clerks	30	21.0	0.1

FABRICATED METAL PRODUCTS,
EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT
(SIC 34)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
General Office Clerks	260	12.0	1.0
Order Clerks	70	15.7	0.2
Payroll and/or Timekeeping Clerks	100	12.2	0.4
Personnel Clerks	30	7.6	0.1
Procurement Clerks	30	17.4	0.1
Secretaries	300	6.1	1.1
Switchboard Operators	20	12.5	0.1
Switchboard Operators/Receptionists	60	8.5	0.2
Typists	100	12.0	0.4
Production Clerks and/or Coordinators	220	5.7	0.8
Shipping Packers	100	23.7	0.4
Shipping and Receiving Clerks	130	12.0	0.5
Stock Clerks, Stockroom and Warehouse	120	7.9	0.4
Other Clerical Workers	120	N.A.	0.4
Sales Workers	360	N.A.	1.3
Sales Representatives	360	13.6	1.3

MACHINERY, EXCEPT ELECTRICAL
(SIC 35, EXCEPT 356 AND 358)

Establishments in this major group are primarily engaged in manufacturing machinery and equipment. It includes machinery with built-in or detachable motors and portable tools, pneumatic or electrical powered. It does not include electrical household appliances or hand tools.

The following table shows the percent distribution of establishments and employment by establishment size. Over 75 percent of employment is with the larger size class although 83 percent of the firms has less than 50 employees.

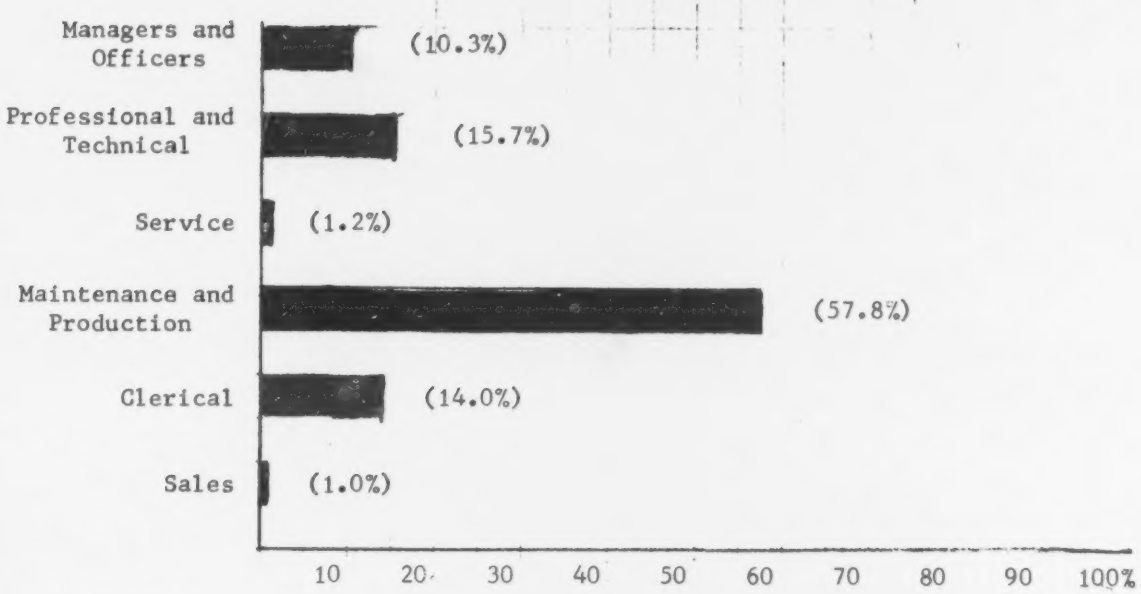
Establishment Size	Percent of Establishments	Percent of Employment
19 or fewer employees	67.9	7.2
20 - 49 employees	15.7	8.0
50 - 99 employees	6.5	7.4
100 or more employees	9.9	77.4

The following table lists the ten specific occupations in the machinery group in which the most workers were employed in June, 1980. These occupations had 39.4 percent of the group's employment.

Occupation	Estimated Industry Employment	Percent Distribution
Managers and Officers	4,190	10.3
Machine Assemblers	2,810	6.9
Electro-Mechanical Equipment Assemblers	1,670	4.1
Welders and Flamecutters	1,350	3.3
Drill Press Operators	1,110	2.8
Supervisors	1,040	2.6
Machine Tool Operators, Combination	1,020	2.5
Lathe Machine Operators	990	2.4
General Office Clerks	940	2.3
Secretaries	880	2.2

The graph below illustrates employment by major occupational category.

PERCENT DISTRIBUTION OF MACHINERY, EXCEPT ELECTRICAL EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY IN NORTH CAROLINA, JUNE, 1980



MACHINERY, EXCEPT ELECTRICAL
(SIC 35, EXCEPT 356 AND 358)
June, 1980

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Total Employment	40,510	N.A.	100.0
Managers and Officers	4,190	2.7	10.3
Professional and Technical Workers	6,370	N.A.	15.7
Engineers	2,730	N.A.	6.7
Electrical and Electronic Engineers	1,540	2.1	3.8
Industrial Engineers	740	2.3	1.8
Mechanical Engineers	350	4.6	0.9
Other Engineers	100	N.A.	0.2
Systems Analysts, Business	150	10.2	0.4
Systems Analysts, Scientific and Technical	100	2.9	0.2
Purchasing Agents and/or Buyers	300	1.8	0.7
Accountants and Auditors	270	8.4	0.7
Commercial Artists	30	18.5	0.1
Cost Estimators	30	16.6	0.1
Writers and/or Editors	110	1.3	0.3
Professional Nurses	20	9.5	0.1
Personnel and Labor Relations Specialists	160	2.9	0.4
Designers	160	8.1	0.4
Other Professional Workers	80	N.A.	0.2
Computer Programmers, Business	580	5.2	1.4
Computer Programmers, Scientific and Technical	550	1.7	1.4
Engineering Technicians	1,040	N.A.	2.6
Drafters	380	7.6	1.0
Electrical and Electronic Technicians	250	28.4	0.6
Mechanical Engineering Technicians	40	16.0	0.1
Tool Programmers, Numerical Control	90	8.8	0.2
Industrial Engineering Technicians	60	4.6	0.2
Other Engineering Technicians	220	N.A.	0.5
Other Technical Workers	60	N.A.	0.2
Service Workers	460	N.A.	1.2
Janitors, Porters, and Cleaners	310	7.4	0.8
Guards and Doorkeepers	40	17.6	0.1
Other Service Workers	110	N.A.	0.3
Maintenance and Production Workers	23,400	N.A.	57.8
Supervisors	1,040	4.0	2.6
Mechanics and Repairers	590	N.A.	1.5
Maintenance Mechanics	370	13.4	0.9
Other Mechanics and Repairers	220	N.A.	0.5
Truck Drivers	100	5.4	0.2

MACHINERY, EXCEPT ELECTRICAL
(SIC 35, EXCEPT 356 AND 358)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Carpenters	20	4.5	0.1
Crane, Derrick, and Hoist Operators	120	24.8	0.3
Delivery and Route Workers	30	30.1	0.1
Electricians	150	6.8	0.4
Filers, Grinders, and Buffers	470	9.6	1.2
Gear Forming Machine Operators	100	18.6	0.2
Industrial Truck Operators	320	7.5	0.8
Inspectors	800	5.5	2.0
Machinists	720	13.1	1.8
Maintenance Repairers, General Utility	280	6.4	0.7
Trades Helpers	200	24.9	0.5
Millwrights	70	17.2	0.2
Order Fillers	260	9.4	0.6
Metal Pourers	20	23.8	0.1
Electroplaters	100	14.5	0.2
Production Packagers	140	18.3	0.3
Sandblasters and/or Shotblasters	60	10.4	0.1
Sheet Metal Workers	210	16.0	0.5
Tool and Die Makers	840	10.9	2.1
Welders and Flamecutters	1,350	8.3	3.3
Drill Press Operators	1,110	13.1	2.8
Grinding Machine Operators	630	12.5	1.6
Heat Treaters	100	16.5	0.2
Lathe Machine Operators	990	6.4	2.4
Lay-Out Markers	60	15.8	0.1
Machine Tool Operators, Combination	1,020	14.8	2.5
Machine Tool Operators, Numerical Control	760	8.1	1.9
Machine Tool Operators, Toolroom	140	13.8	0.4
Machine Tool Setters, Metal	380	9.9	0.9
Milling/Planning Machine Operators	610	8.4	1.5
Molders, Machine	30	31.8	0.1
Metal Sawyers	60	8.5	0.1
Testers	330	32.1	0.8
Production Painters	260	7.8	0.6
Punch Press Operators	260	12.5	0.6
Punch Press Setters	40	12.4	0.1
Shear and/or Slitter Operators	40	8.9	0.1
Furnace and/or Cupola Tenders	30	23.7	0.1
Power Brake and/or Bending Machine Operators	130	12.1	0.3
Machine Assemblers	2,810	12.2	6.9
Electro-Mechanical Equipment Assemblers	1,670	4.3	4.1
Electrical and Electronic Assemblers	290	34.7	0.7
Other Skilled Workers	520	N.A.	1.3
Other Semiskilled Workers	2,190	N.A.	5.4

MACHINERY, EXCEPT ELECTRICAL
(SIC 35, EXCEPT 356 AND 358)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Other Unskilled Workers	950	N.A.	2.4
Clerical Workers	5,660	N.A.	14.0
Clerical Supervisors	50	12.6	0.1
Office Machine Operators	440	N.A.	1.1
Computer Operators	250	3.1	0.6
Keypunch Operators	120	5.8	0.3
Other Office Machine Operators	70	N.A.	0.2
Accounting Clerks	190	4.8	0.5
Bookkeepers, Hand	30	10.5	0.1
File Clerks	40	27.4	0.1
General Office Clerks	940	6.2	2.3
Order Clerks	70	11.1	0.2
Payroll and/or Timekeeping Clerks	70	8.4	0.2
Personnel Clerks	40	8.9	0.1
Procurement Clerks	60	5.4	0.1
Secretaries	880	3.6	2.2
Statistical Clerks	40	22.9	0.1
Switchboard Operators/Receptionists	80	5.3	0.2
Typists	130	16.4	0.3
Production Clerks and/or Coordinators	850	3.7	2.1
Shipping Packers	260	10.8	0.6
Shipping and Receiving Clerks	160	8.1	0.4
Stock Clerks, Stockroom and Warehouse	810	4.0	2.0
Other Plant Clerical Workers	520	N.A.	1.3
Sales Workers	430	N.A.	1.0
Sales Representatives	430	7.4	1.0

ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT, AND SUPPLIES (SIC 36, EXCEPT 361)

Establishments in this major group are primarily engaged in manufacturing machinery, apparatus, and supplies for the generation, storage, transmission, transformation, and utilization of electrical energy. This group includes the manufacture of household appliances.

The following table shows the percent distribution of establishments and employment by establishment size. The larger size class accounted for 95 percent of the total employment.

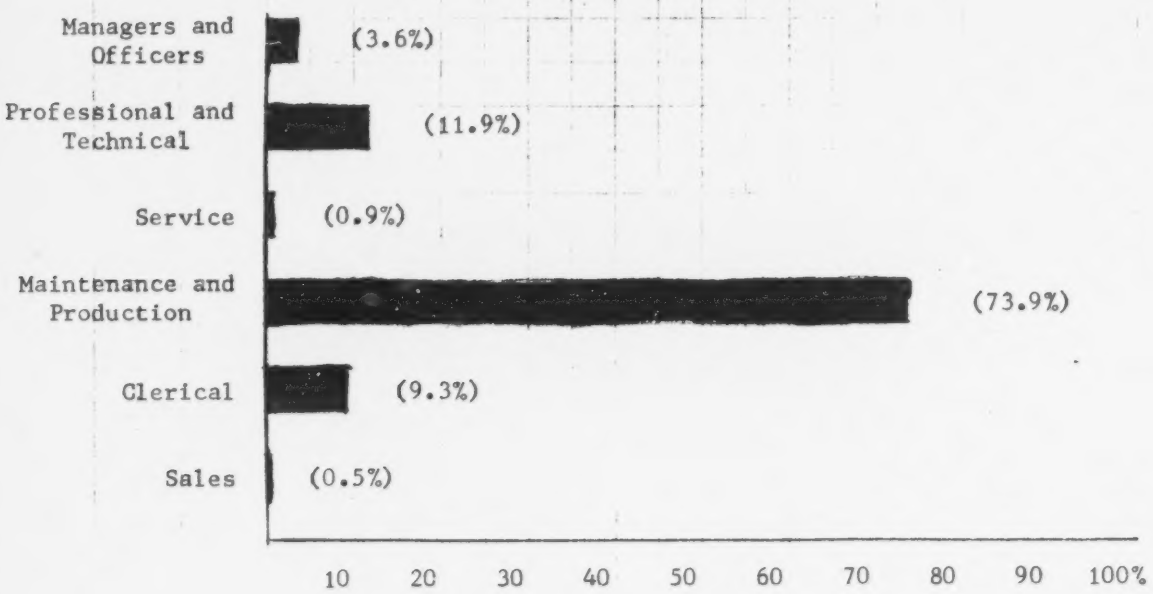
Establishment Size	Percent of Establishments	Percent of Employment
19 or fewer employees	32.6	0.8
20 - 49 employees	15.7	2.0
50 - 99 employees	7.3	1.8
100 or more employees	44.4	95.4

The following table lists the ten specific occupations in this group in which the most workers were employed in June, 1980. These occupations accounted for 43.7 percent of the total employment.

Occupation	Estimated Industry Employment	Percent Distribution
Electrical and Electronic Assemblers	9,120	17.9
Inspectors	2,230	4.4
Managers and Officers	1,820	3.6
Wirers, Electronic	1,640	3.2
Testers	1,450	2.8
Electrical and Electronic Engineers	1,420	2.8
Supervisors	1,310	2.6
Electro-Mechanical Equipment Assemblers	1,180	2.3
Electrical and Electronic Technicians	1,080	2.1
Coil Winders	1,010	2.0

The graph below illustrates employment by major occupational category.

PERCENT DISTRIBUTION OF ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT, AND SUPPLIES EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY IN NORTH CAROLINA, JUNE, 1980



ELECTRICAL AND ELECTRONIC MACHINERY,
EQUIPMENT, AND SUPPLIES
(SIC 36, EXCEPT 361)
June, 1980

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Total Employment	51,050	N.A.	100.0
Managers and Officers	1,820	N.A.	3.6
Professional and Technical Workers	6,000	N.A.	11.9
Engineers	2,580	N.A.	5.1
Chemical Engineers	30	16.2	0.1
Electrical and Electronic Engineers	1,420	14.3	2.8
Industrial Engineers	670	15.2	1.3
Mechanical Engineers	410	12.6	0.8
Other Engineers	50	N.A.	0.1
Systems Analysts, Business	140	9.2	0.3
Purchasing Agents and/or Buyers	180	5.9	0.3
Accountants and Auditors	310	8.3	0.6
Cost Estimators	40	31.9	0.1
Professional Nurses	50	6.9	0.1
Personnel and Labor Relations Specialists	140	5.7	0.3
Designers	90	31.9	0.2
Other Professional Workers	450	N.A.	0.9
Computer Programmers, Business	50	15.2	0.1
Drafters	240	8.9	0.5
Engineering Technicians	1,640	N.A.	3.2
Electrical and Electronic Technicians	1,080	24.7	2.1
Mechanical Engineering Technicians	210	5.1	0.4
Industrial Engineering Technicians	100	7.6	0.2
Other Engineering Technicians	250	N.A.	0.5
Science Technicians	50	4.8	0.1
Other Technicians	50	N.A.	0.1
Service Workers	460	N.A.	0.9
Janitors, Porters, and Cleaners	270	8.2	0.5
Guards and Doorkeepers	160	6.3	0.3
Other Service Workers	30	N.A.	0.1
Maintenance and Production Workers	37,740	N.A.	73.9
Supervisors	1,310	3.7	2.6
Mechanics and Repairers	1,130	N.A.	2.2
Electric-Motor Repairers	70	18.2	0.1
Electrical Instrument Repairers	80	15.9	0.2
Mechanics, Maintenance	940	9.7	1.8
Other Mechanics and Repairers	40	N.A.	0.1
Truck Drivers	60	8.1	0.1
Carpenters	30	14.3	0.1
Crane, Derrick, and Hoist Operators	30	10.5	0.1
Electricians	260	7.6	0.5

ELECTRICAL AND ELECTRONIC MACHINERY,
EQUIPMENT, AND SUPPLIES
(SIC 36, EXCEPT 361)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Filers, Grinders, and Buffers	60	9.3	0.1
Gear Cutting, Grinders	120	0.0	0.2
Industrial Truck Operators	320	6.0	0.6
Inspectors	2,230	5.1	4.4
Instrument Repairers	140	26.9	0.3
Machinists	280	11.4	0.6
Maintenance Repairers, General Utility	390	5.2	0.8
Trades Helpers	150	10.4	0.3
Millwrights	110	23.1	0.2
Order Fillers	140	17.7	0.3
Electroplaters	150	22.3	0.3
Plumbers and/or Pipefitters	30	17.2	0.1
Production Packagers	590	6.7	1.1
Sheet Metal Workers	50	18.3	0.1
Tool and Die Makers	590	7.5	1.2
Welders and Flamecutters	240	6.3	0.5
Etchers and/or Engravers	30	0.0	0.1
Grinding Machine Operators, Metal	80	4.9	0.2
Lathe Machine Operators, Metal	120	16.3	0.2
Machine Tool Operators, Combination	590	6.4	1.2
Machine Tool Operators, Numerical Control	70	28.0	0.1
Machine Tool Operators, Toolroom	120	19.1	0.2
Machine Tool Setters, Metal	140	13.6	0.3
Milling/Planning Machine Operators	30	12.5	0.1
Plater Helpers	40	25.5	0.1
Testers	1,450	9.3	2.8
Production Painters	90	18.4	0.2
Die-Cast Machine Operators/Setters	80	18.5	0.2
Electronic Wirers	1,640	20.8	3.2
Electronic Impregnators	60	7.4	0.1
Riveters, Light	200	32.1	0.4
Punch-Press Operators, Metal	380	10.0	0.8
Punch-Press Setters, Metal	40	27.6	0.1
Shear/Slitter Operators, Metal	40	3.9	0.1
Coil Winders	1,010	9.5	2.0
Coil Tapers, Hand/Machine	40	0.0	0.1
Encapsulators	200	34.0	0.4
Compression/Injection Molders	490	20.8	1.0
Coil Finishers	190	20.2	0.4
Dip Platers, Non-Electric	30	19.4	0.1
Power Brake/Bend Machine Operators	40	17.6	0.1
Assemblers	17,440	N.A.	34.2
Machine Assemblers	700	7.1	1.4
Electro-Mechanical Equipment Assemblers	1,180	15.9	2.3

ELECTRICAL AND ELECTRONIC MACHINERY,
EQUIPMENT, AND SUPPLIES
(SIC 36, EXCEPT 361)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Electric/Electronic Assemblers	9,120	9.1	17.9
Other Assemblers	6,440	N.A.	12.6
Mixers/Blenders, Chemical	60	11.8	0.1
Other Skilled Workers	880	N.A.	1.7
Other Semiskilled Workers	1,970	N.A.	3.9
Other Unskilled Workers	1,780	N.A.	3.5
Clerical Workers	4,750	N.A.	9.3
Clerical Supervisors	60	15.4	0.1
Computer Operators	140	7.2	0.3
Keypunch Operators	170	7.5	0.3
Stenographers	30	15.1	0.1
Accounting Clerks	220	8.9	0.4
Bookkeepers, Hand	40	13.4	0.1
File Clerks	40	9.6	0.1
General Office Clerks	300	7.8	0.6
Order Clerks	250	13.8	0.5
Payroll and/or Timekeeping Clerks	150	3.7	0.3
Personnel Clerks	120	3.5	0.2
Procurement Clerks	50	15.8	0.1
Secretaries	620	12.6	1.2
Statistical Clerks	40	5.4	0.1
Switchboard Operators/Receptionists	70	8.8	0.1
Typists	290	12.8	0.6
Production Clerks and/or Coordinators	530	11.3	1.0
Shipping Packers	300	6.3	0.6
Shipping and Receiving Clerks	190	9.7	0.4
Stock Clerks, Stockroom and Warehouse	760	4.0	1.5
Other Clerical Workers	380	N.A.	0.7
Sales Workers	280	N.A.	0.5
Sales Representatives	280	N.A.	0.5

TRANSPORTATION EQUIPMENT
(SIC 37)

This major group includes establishments primarily engaged in manufacturing equipment for transportation via land, water, and air. It includes the manufacturing of motor vehicles, aircraft, missiles, boats, railroad equipment, and other transportation equipment.

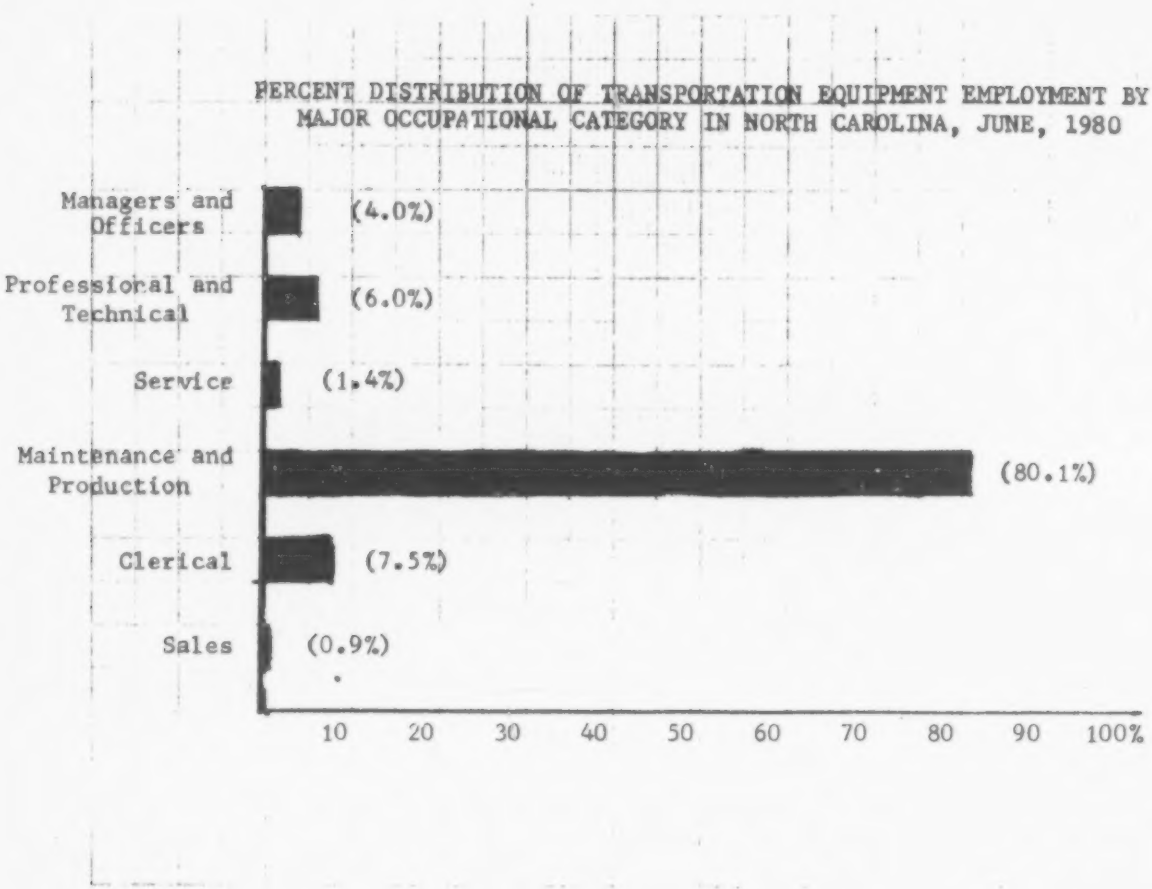
The following table shows the percent distribution of establishments and employment by establishment size. The largest size class accounted for 86 percent of the total employment, but for only 20 percent of the total establishments.

Establishment Size	Percent of Establishments	Percent of Employment
19 or fewer employees	59.6	4.4
20 - 49 employees	15.2	5.8
50 - 99 employees	4.7	3.8
100 or more employees	20.5	86.0

The following table shows the ten specific occupations of the transportation equipment group in which the most workers were employed in June, 1980. These occupations accounted for 29.2 percent of the total employment.

Occupation	Estimated Industry Employment	Percent Distribution
Machine Assemblers	730	4.9
Supervisors	680	4.6
Welders and Flamecutters	650	4.4
Managers and Officers	600	4.0
Inspectors	380	2.6
Industrial Truck Operators	320	2.1
Laminators, Preforms	280	1.9
Carpenters	270	1.8
Machine Tool Setters, Metal	240	1.6
Trades Helpers	200	1.3

The graph below illustrates employment by major occupational category.



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TRANSPORTATION EQUIPMENT
(SIC 37)
June, 1980

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Total Employment	14,910	N.A.	100.0
Managers and Officers	600	N.A.	4.0
Professional and Technical Workers	900	N.A.	6.0
Engineers	360	N.A.	2.4
Industrial Engineers	170	14.7	1.1
Mechanical Engineers	150	13.4	1.0
Other Engineers	40	N.A.	0.3
Purchasing Agents and/or Buyers	110	9.4	0.8
Accountants and Auditors	60	13.3	0.4
Professional Nurses	16	24.2	0.1
Personnel and Labor Relations Specialists	50	9.1	0.3
Designers	20	14.4	0.2
Other Professional Workers	50	N.A.	0.3
Computer Programmers, Business	20	19.5	0.1
Drafters	90	15.3	0.6
Electrical and Electronic Technicians	30	35.0	0.2
Industrial Engineering Technicians	20	23.6	0.1
Other Engineering Technicians	60	N.A.	0.4
Other Technicians	15	N.A.	0.1
Service Workers	210	N.A.	1.4
Janitors, Porters, and Cleaners	130	19.0	0.9
Guards and Doorkeepers	80	31.8	0.6
Maintenance and Production Workers	11,940	N.A.	80.1
Supervisors	680	7.0	4.6
Mechanics and Repairers	310	N.A.	2.1
Marine Mechanics and/or Repairers	40	0.0	0.3
Maintenance Mechanics	190	24.4	1.3
Other Mechanics and Repairers	80	N.A.	0.5
Carpenters	270	10.7	1.8
Electricians	100	12.4	0.7
Filers, Grinders, Buffers	160	19.8	1.1
Industrial Truck Operators	320	17.9	2.1
Inspectors	380	18.9	2.6
Maintenance Repairers, General Utility	160	27.5	1.1
Trades Helpers	200	16.2	1.3
Plumbers and/or Pipefitters	20	33.3	0.1
Production Packagers	30	29.7	0.2
Sewing Machine Operators, Regular Equipment - Nongarment	40	31.1	0.3
Sheet Metal Workers	70	26.3	0.5
Shipriggers	20	24.0	0.1
Tool and Die Makers	70	33.2	0.5

TRANSPORTATION EQUIPMENT
(SIC 37)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Welders and Flamecutters	650	19.3	4.4
Machine Tool Operators, Toolroom	60	27.9	0.4
Machine Tool Setters, Metal	240	33.2	1.6
Patternmakers, Wood	20	0.0	0.1
Power-Screwdriver Operators	40	28.0	0.2
Shipwrights	20	0.0	0.1
Woodworking-Machine Operators	70	13.9	0.4
Production Painters	140	25.4	0.9
Assemblers	2,480	N.A.	16.6
Machine Assemblers	730	34.3	4.9
Electro-Mechanical Equipment Assemblers	20	20.0	0.1
Other Assemblers	1,730	28.0	11.6
Laminators, Preforms	280	6.9	1.9
Other Skilled Workers	380	N.A.	2.6
Other Semiskilled Workers	3,830	N.A.	25.7
Other Unskilled Workers	900	N.A.	6.1
Clerical Workers	1,120	N.A.	7.5
Clerical Supervisors	20	13.3	0.1
Office Machine Operators	90	N.A.	0.6
Bookkeeping and Billing Machine Operators	20	23.5	0.1
Computer Operators	20	15.6	0.2
Keypunch Operators	50	11.9	0.3
Accounting Clerks	70	11.3	0.5
General Office Clerks	170	21.0	1.1
Order Clerks	30	30.5	0.2
Payroll and/or Timekeeping Clerks	30	10.8	0.2
Personnel Clerks	30	13.3	0.2
Procurement Clerks	20	33.3	0.1
Secretaries	130	7.8	0.9
Statistical Clerks	20	31.3	0.1
Switchboard Operators/Receptionists	30	5.1	0.2
Typists	30	16.6	0.2
Production Clerks and/or Coordinators	120	17.2	0.8
Stock Clerks, Stockroom and Warehouse	100	9.6	0.7
Other Clerical Workers	230	N.A.	1.5
Sales Workers	140	N.A.	0.9
Sales Representatives	140	19.0	0.9

MEASURING, ANALYZING, AND CONTROLLING INSTRUMENTS; PHOTOGRAPHIC, MEDICAL, AND OPTICAL GOODS (SIC 38, EXCEPT 387)

Establishments in this major group are primarily engaged in manufacturing instruments for measuring, testing, analyzing, and controlling, and associated accessories; optical instruments and lenses; surveying and drafting instruments; surgical, medical, and dental instruments, equipment, and supplies; opthalmic goods; photographic equipment; and watches and clocks.

The following table shows the percent distribution of establishments and employment by establishment size. The smaller size classes accounted for almost 84 percent of the total establishments, but the larger class accounted for almost 90 percent of the total employment.

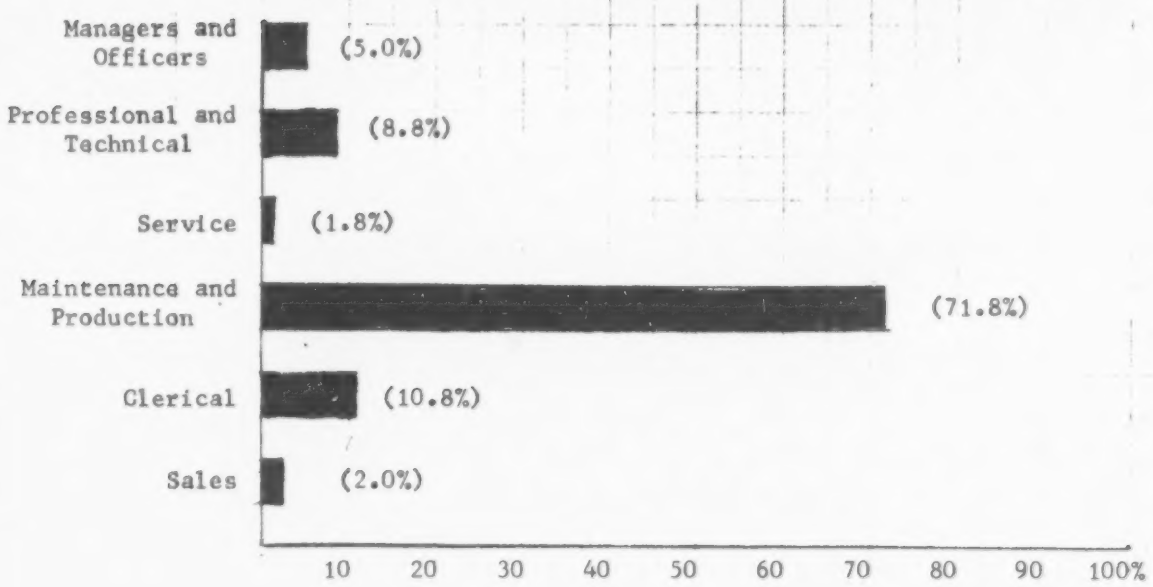
Establishment Size	Percent of Establishments	Percent of Employment
19 or fewer employees	67.0	3.8
20 - 49 employees	10.6	2.9
50 - 99 employees	5.9	3.7
100 or more employees	16.5	89.6

The following table lists the ten specific occupations in this major group in which the most workers were employed in April, 1980. These occupations accounted for 41.5 percent of the total employment.

Occupation	Estimated Industry Employment	Percent Distribution
Instrument Makers/Assemblers	670	7.9
Sewing Machine Operators, Regular Equipment - Nongarment	540	6.3
Managers and Officers	430	5.0
Supervisors	390	4.6
Chemical Operator Helpers	390	4.6
Chemical Operators B	310	3.6
Inspectors	300	3.5
Production Packagers	200	2.3
Sales Representatives	170	2.0
Chemical Operators A	140	1.7

The graph below illustrates employment by major occupational category.

PERCENT DISTRIBUTION OF MEASURING, ANALYZING, AND CONTROLLING INSTRUMENTS; PHOTOGRAPHIC, MEDICAL, AND OPTICAL GOODS EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY IN NORTH CAROLINA, APRIL, 1980



MEASURING, ANALYZING, AND CONTROLLING INSTRUMENTS;
PHOTOGRAPHIC, MEDICAL, AND OPTICAL GOODS
(SIC 38, EXCEPT 387)
April, 1980

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Total Employment	8,540	N.A.	100.0
Managers and Officers	430	9.9	5.0
Professional and Technical Workers	750	N.A.	8.8
Engineers	280	N.A.	3.3
Chemical Engineers	80	4.7	0.9
Electrical and Electronic Engineers	50	11.0	0.6
Industrial Engineers	50	18.3	0.6
Mechanical Engineers	80	13.5	0.9
Other Engineers	20	N.A.	0.2
Chemists	80	31.9	1.0
Other Natural and Mathematical Scientists	70	N.A.	0.8
Systems Analysts	20	24.8	0.2
Purchasing Agents and/or Buyers	40	17.1	0.4
Accountants and Auditors	30	8.7	0.3
Personnel and Labor Relations Specialists	30	0.0	0.3
Other Professional Workers	50	N.A.	0.6
Computer Programmers	20	26.1	0.3
Drafters	20	7.9	0.2
Electrical and Electronic Technicians	30	9.8	0.3
Other Engineering Technicians	40	N.A.	0.5
Other Technicians	40	N.A.	0.5
Service Workers	150	N.A.	1.8
Janitors, Porters, and Cleaners	100	4.3	1.1
Guards and Doorkeepers	30	16.4	0.4
Other Service Workers	20	N.A.	0.2
Maintenance and Production Workers	6,120	N.A.	71.8
Supervisors	390	5.9	4.6
Maintenance Mechanics	120	4.0	1.4
Truck Drivers	20	8.7	0.2
Electricians	20	30.9	0.2
Gear Cutting, Grinders	20	10.2	0.2
Inspectors	300	5.9	3.5
Instrument Repairers	80	8.7	0.9
Maintenance Repairers, General Utility	50	10.1	0.6
Order Fillers	60	34.3	0.7
Production Packagers	200	5.6	2.3
Sewing Machine Operators, Regular Equipment - Nongarment	540	6.6	6.3
Sewing Machine Operators, Special Equipment - Nongarment	20	0.0	0.2

MEASURING, ANALYZING, AND CONTROLLING INSTRUMENTS;
PHOTOGRAPHIC, MEDICAL, AND OPTICAL GOODS
(SIC 38, EXCEPT 387)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Stationary Boiler Firers	20	4.3	0.3
Tool and Die Makers	100	6.9	1.2
Welders and Flamecutters	30	23.9	0.3
Opticians, Dispensing	20	0.0	0.2
Chemical Operators A	140	4.7	1.7
Chemical Operators B	310	4.7	3.6
Chemical Operator Helpers	390	4.7	4.6
Grinding Machine Operators, Metal	120	15.5	1.4
Lathe Machine Operators, Metal	50	14.0	0.6
Machine Tool Operators, Numerical-Control	20	13.2	0.2
Milling/Planning Machine Operators	30	22.8	0.4
Testers	70	7.4	0.8
Production Painters	40	20.6	0.4
Electronic Wirers	50	10.2	0.6
Punch-Press Operators, Metal	90	18.5	1.0
Compression/Injection Molders	90	21.4	1.0
Assemblers	1,340	N.A.	15.7
Instrument Makers/Assemblers	670	8.9	7.9
Electro-Mechanical Equipment Assemblers	100	13.5	1.2
Electrical/Electronic Assemblers	120	31.4	1.4
Other Assemblers	450	N.A.	5.2
Other Skilled Workers	180	N.A.	2.1
Other Semiskilled Workers	740	N.A.	8.7
Other Unskilled Workers	470	N.A.	5.6
Clerical Workers	920	N.A.	10.8
Clerical Supervisors	30	31.0	0.3
Computer Operators	20	22.8	0.2
Keypunch Operators	30	0.0	0.4
Stenographers	30	0.0	0.4
Accounting Clerks	40	15.6	0.5
General Office Clerks	70	13.3	0.8
Procurement Clerks	20	19.4	0.3
Secretaries	90	16.3	1.1
Switchboard Operators/Receptionists	20	9.1	0.2
Typists	20	20.0	0.2
Production Clerks and/or Coordinators	100	5.5	1.1
Shipping Packers	100	11.0	1.1
Shipping and Receiving Clerks	50	17.7	0.6
Stock Clerks, Stockroom and Warehouse	120	8.8	1.4
Other Clerical Workers	180	N.A.	2.1
Sales Workers	170	N.A.	2.0
Sales Representatives	170	16.6	2.0

MISCELLANEOUS MANUFACTURING INDUSTRIES
(SIC 39)

This major group includes establishments primarily engaged in manufacturing items not classified in any other major group. Included in this are jewelry, silverware, musical instruments, toys, sporting goods, pens, pencils, novelties, brooms, caskets, and other miscellaneous goods.

The following table shows the percent distribution of establishments and employment by establishment size. The smaller size classes accounted for over 90 percent of the total establishments but for only 33 percent of the total employment.

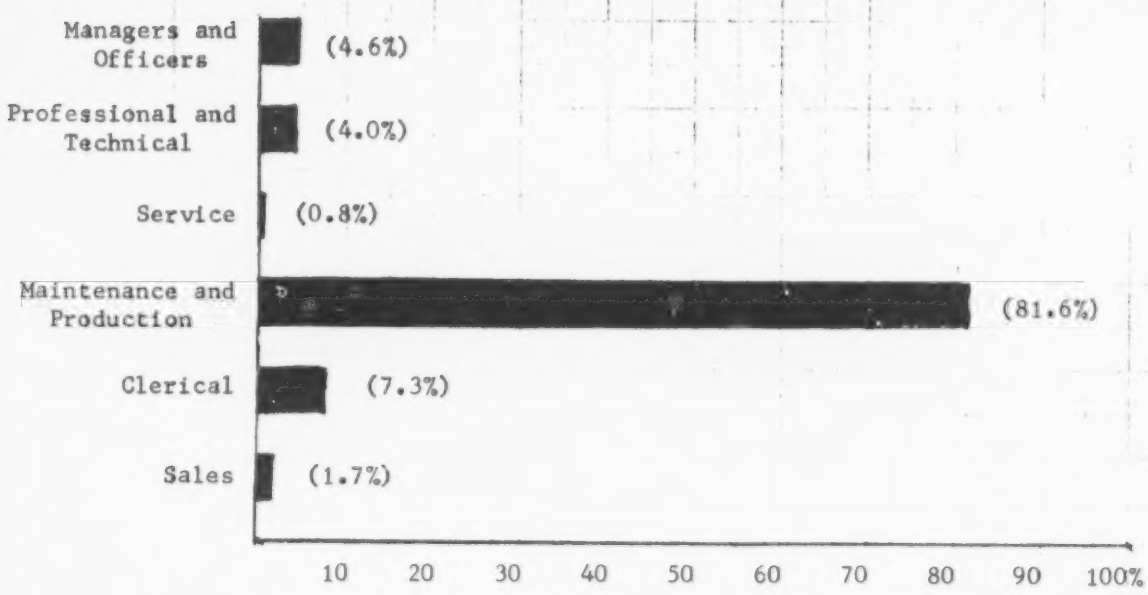
Establishment Size	Percent of Establishments	Percent of Employment
19 or fewer employees	72.2	10.8
20 - 49 employees	12.4	9.0
50 - 99 employees	7.1	13.0
100 or more employees	8.3	67.0

The following table lists the five specific occupations of this group in which the most workers were employed in May, 1980. These occupations accounted for 32.3 percent of the group's employment.

Occupation	Estimated Industry Employment	Percent Distribution
Assemblers	1,080	16.0
Managers and Officers	310	4.6
Supervisors	210	3.1
Production Packagers	210	3.1
Compression/Injection Molders	140	2.0

The graph below illustrates employment by major occupational category.

PERCENT DISTRIBUTION OF MISCELLANEOUS MANUFACTURING INDUSTRIES EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY IN NORTH CAROLINA, MAY, 1980



MISCELLANEOUS MANUFACTURING INDUSTRIES
(SIC 39)
May, 1980

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Total Employment	6,750	N.A.	100.0
Managers and Officers	310	5.0	4.6
Professional and Technical Workers	270	N.A.	4.0
Industrial Engineers	20	28.3	0.2
Purchasing Agent and/or Buyers	30	8.4	0.4
Accountants and Auditors	30	9.1	0.4
Designers	50	13.9	0.7
Other Professional Workers	30	N.A.	0.4
Drafters	20	23.6	0.4
Electrical and Electronic Technicians	20	24.9	0.2
Other Technicians	70	N.A.	1.0
Service Workers	60	N.A.	0.8
Janitors, Porters, and Cleaners	60	N.A.	0.8
Maintenance and Production Workers	5,510	N.A.	81.6
Supervisors	210	10.8	3.1
Maintenance Mechanics	20	32.3	0.4
Other Mechanics and Repairers	30	36.3	0.4
Truck Drivers	60	10.4	0.9
Cabinetmakers	60	2.4	0.9
Compositors and/or Typesetters	20	28.2	0.3
Electricians	20	11.8	0.3
Industrial Truck Operators	50	7.6	0.8
Inspectors	70	5.1	1.1
Jewelers and/or Silversmiths	20	13.5	0.3
Maintenance Repairers, General Utility	70	32.1	1.0
Trades Helpers	50	27.1	0.8
Order Fillers	30	0.0	0.4
Maintenance Painters	20	6.3	0.2
Production Packagers	210	7.3	3.1
Sewing Machine Operators, Regular Equipment - Nongarment	90	21.7	1.4
Sheet Metal Workers	50	25.5	0.7
Tool and Die Makers	40	3.5	0.6
Welders and Flamecutters	20	30.1	0.3
Cut-Off-Saw Operators, Lumber	20	17.7	0.2
Ripsaw Operators	20	8.8	0.2
Production Painters	80	13.3	1.2
Compression/Injection Molders	140	3.2	2.0
Gluers/Cementers, Hand	60	5.8	0.9
Screen or Stencil Printers	60	32.2	0.9
Assemblers	1,080	22.9	16.0
Decorators, Hand	30	27.5	0.4

MISCELLANEOUS MANUFACTURING INDUSTRIES
(SIC 39)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Blow-Molding Machine Operators	120	0.0	1.8
Other Skilled Workers	150	N.A.	2.2
Other Semiskilled Workers	1,830	N.A.	27.4
Other Unskilled Workers	780	N.A.	11.6
Clerical Workers	490	N.A.	7.3
Office Machine Operators	30	N.A.	0.4
Accounting Clerks	20	13.8	0.4
Bookkeepers, Hand	20	12.9	0.3
General Office Clerks	40	10.9	0.6
Order Clerks	40	23.7	0.5
Payroll and/or Timekeeping Clerks	20	10.5	0.3
Secretaries	70	9.3	1.0
Switchboard Operators/Receptionists	20	13.2	0.3
Other Office Clerical Workers	70	N.A.	1.0
Production Clerks and/or Coordinators	30	16.2	0.5
Shipping Packers	70	19.6	1.0
Shipping and Receiving Clerks	30	18.4	0.5
Stock Clerks, Stockroom and Warehouse	30	16.0	0.4
Sales Workers	110	N.A.	1.7
Sales Representatives	110	14.9	1.7

HOSPITALS
(SIC 806)

Establishments in this major group are primarily engaged in providing diagnostic services, extensive medical treatment including surgical services, and other hospital services, as well as continuous nursing services.

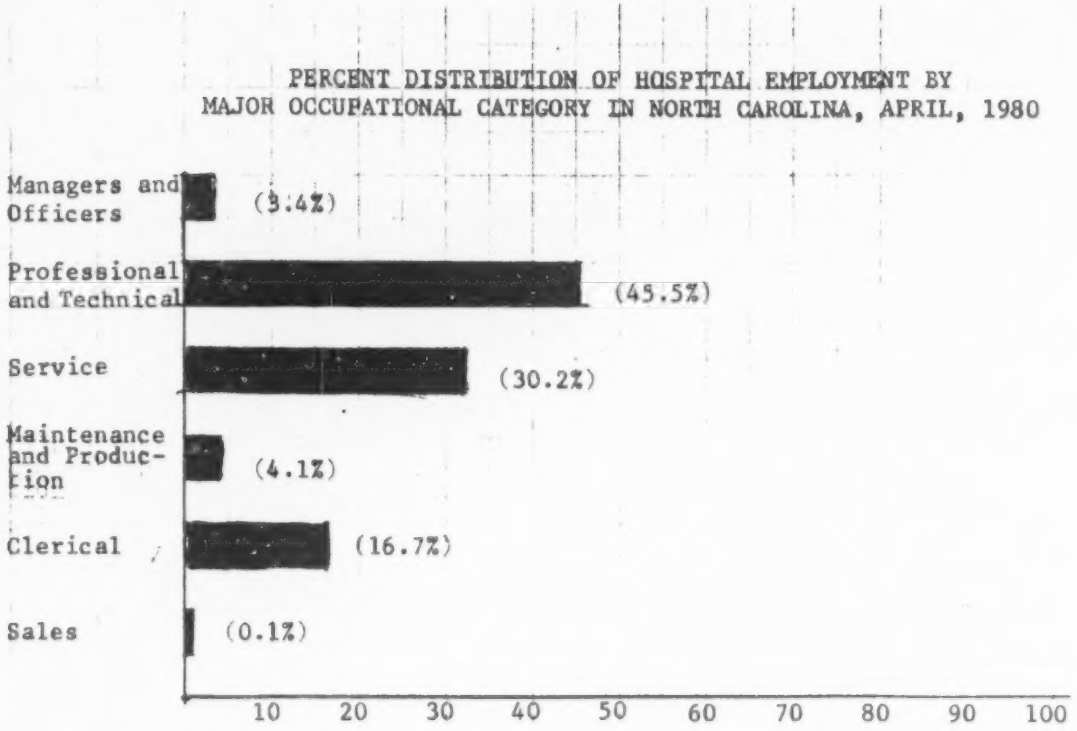
The following table shows the percent distribution of establishments and employment by establishment size. Nearly 97 percent of the total employment is in establishments with 100 or more employees.

Establishment	Percent of Establishments	Percent of Employment
19 or more employees	6.5	0.1
20-49 employees	6.5	0.7
50-99 employees	12.1	2.4
100 or more employees	74.9	96.8

The following table lists the ten specific occupations in this group in which the most workers were employed in June 1980. These occupations accounted for 58.3 percent of the total employment.

Occupation	Estimated Industry Employment	Percent Distribution
Professional Nurses	14,400	17.7
Nurse Aides and/or Orderlies	10,370	12.8
Licensed Practical Nurses	7,180	8.8
Maids	2,830	3.5
Managers and Officers	2,790	3.4
Psychiatric Aids	2,760	3.4
General Office Clerks	1,940	2.4
Kitchen Helpers	1,850	2.3
Secretaries	1,760	2.2
Physicians and/or Surgeons	1,430	1.8

The graph below illustrates employment by major occupational category.



HOSPITALS
(SIC 806)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Total Employment	81,260	N.A.	100.0
Managers and Officers	2,790	N.A.	3.4
Professional and Technical Workers	36,980	N.A.	45.5
Psychologists	270	8.4	0.3
Other Social Scientists	230	N.A.	0.3
Systems Analysts	110	14.5	0.1
Purchasing Agents and/or Buyers	150	3.7	0.2
Accountants and Auditors	200	5.7	0.2
Caseworkers	930	6.7	1.1
Clergy	120	20.2	0.1
Dentists	50	24.3	0.1
Dietitions and/or Nutritionists	220	3.4	0.3
Librarians, Professional	140	22.5	0.2
Professional Nurses	14,400	2.5	17.7
Occupational Therapists	250	12.8	0.3
Personnel and Labor Relations Specs.	190	6.0	0.2
Pharmacists	480	3.5	0.6
Physical Therapists	360	4.0	0.4
Physicians and/or Surgeons	1,430	20.2	1.8
Other Therapists	200	N.A.	0.2
Manual-Arts, Therapists	290	13.4	0.4
Speech Pathologists	100	11.9	0.1
Respiratory Therapists	700	8.8	0.9
Other Professional Workers	490	N.A.	0.6
Computer Programmers	70	12.6	0.1
Other Engineering Technicians	50	N.A.	0.1
Licensed Practical Nurses	7,180	4.4	8.8
Physician's Assistants	510	42.8	0.6
Surgical Technicians	780	5.5	1.0
Radiologic Technicians	930	6.5	1.1
Pharmacy Helpers	630	4.4	0.8
Medical-Record Librarians	280	6.5	0.3
Medical Laboratory Technicians	1,080	5.7	1.3
Biochemistry Technologists	160	14.1	0.2
Microbiology Technologists	130	15.6	0.2
Cytotechnologists	80	7.6	0.1
Histologic Technologists	110	7.0	0.1
Medical Lab Technicians	850	14.6	1.0
Electrocardiograph Technicians	270	4.3	0.3
Electroencephalograph Technicians	90	7.6	0.1
Dietetic Technicians	90	9.7	0.1
Blood Bank Technician Specialists	350	11.6	0.4
Physical Therapy Assistants	390	6.0	0.5
Radiologic and/or Nuclear Technicians	780	5.6	1.0
Other Medical and Dental Technicians	540	13.3	0.7
Other Technicians	320	18.6	0.4

HOSPITALS
(SIC 806)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Service Workers	24,500	N.A.	30.2
Supervisors, Nonworking Service	460	11.9	0.6
Maids	2,830	4.6	3.5
Janitors, Porters and Cleaners	1,210	9.5	1.5
Guards and Doorkeepers	410	7.6	0.5
Bakers, Bread and/or Pastry	110	9.9	0.1
Dining Room Attendants	350	19.1	0.4
Kitchen Helpers	1,850	6.5	2.3
Waiters or Waitresses	110	15.8	0.1
Counter Attendants	270	7.0	0.3
Cooks, Short Order	50	20.3	0.6
Pantry, Sandwich and/or Coffee Makers	90	12.3	0.1
Cooks, Institution	740	4.3	0.9
Other Food Service Workers	1,460	N.A.	1.8
Housekeepers	550	11.1	0.7
Nurse Aides and/or Orderlies	10,370	4.5	12.8
Psychiatric Aids	2,760	26.7	3.4
Child-Care Workers	170	12.8	0.2
Social Service Aides	80	9.2	0.9
Medical Assistants	70	25.1	0.9
Occupational Therapy Assistants	60	15.9	0.7
Other Service Workers	500	N.A.	0.6
Maintenance and Production Workers	3,360	N.A.	4.1
Supervisors	80	13.9	0.9
Mechanics and Repairers	290	N.A.	0.4
Electromedical Equipment Operators	70	7.9	0.8
Maintenance Mechanics	180	11.5	0.2
Other Mechanics and Repairers	40	N.A.	0.1
Washers, Machine and/or Starchers	180	14.1	0.2
Laundry Pressers, Machine	440	12.1	0.5
Truck Drivers	70	22.3	0.1
Carpenters	130	10.1	0.2
Electricians	120	8.3	0.1
Maintenance Repairers, General Utility	420	5.2	0.5
Trades, Helpers	100	12.7	0.1
Order Fillers	110	46.9	0.1
Maintenance Painters	160	7.4	0.2
Plumbers and/or Pipefitters	80	9.8	0.1
Sewers, Custom	80	12.1	0.1
Stationary Boiler Firers	50	20.6	0.1
Stationary Engineers	50	14.4	0.1
Gardeners and Groundskeepers	170	7.5	0.2
Ambulance Drivers and/or Attendants	120	19.7	0.1
Other Skilled Workers	180	N.A.	0.2
Other Semiskilled Workers	260	N.A.	0.3
Other Laborers	270	N.A.	0.3

HOSPITALS
(SIC 806)

(Continued)

Occupation	Estimated Employment	Relative Error %	Percent Distribution
Clerical Workers	13,590	N.A.	16.7
Clerical Supervisors	430	11.3	0.5
Office Machine Operators	850	N.A.	1.0
Bookkeeping/Billing Machine Operators	60	8.4	0.1
Computer Operators	500	31.0	0.6
Keypunch Operators	200	5.9	0.3
Other Office Machine Operators	90	25.3	0.1
Stenographers	480	6.3	0.6
Accounting Clerks	380	9.9	0.5
Bookkeepers, Hand	110	3.9	0.1
Cashiers	530	9.9	0.7
File Clerks	730	7.7	0.9
General Office Clerks	1,940	13.9	2.4
Insurance Clerks, Medical	980	3.7	1.2
Order Clerks	90	22.0	0.1
Payroll and/or Timekeeping Clerks	160	4.7	0.2
Personnel Clerks	160	3.5	0.2
Procurement Clerks	100	7.3	0.1
Receptionists	740	7.2	0.9
Secretaries	1,760	5.2	2.2
Statistical Clerks	370	24.2	0.5
Switchboard Operators	460	5.0	0.6
Switchboard Operators/Receptionists	270	5.1	0.3
Typists	900	7.3	1.1
Shipping and Receiving Clerks	90	7.6	0.1
Stock Clerks, Stockroom	280	8.8	0.3
Other Clerical Workers	1,780	N.A.	2.2
Sales Workers	40	N.A.	0.1
Sales Representatives	40	N.A.	0.1